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Baltimore. Mayor.

THE

MAYOR'S MESSAGE,

AND

Reports of the City Officers,

MADE TO THE

CITY COUNCIL OF BALTIMORE,

FOR THE YEAR 1881.

BALTIMORE:
PRINTED BY KING BROTHERS,
CITY PRINTERS.

1882.

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MAYOR'S MESSAGE.

BALTIMORE, January 23d, 1882.

Fellow-citizens of the First and Second Branches of the City Council:

I have the pleasure, on this, the first occasion of my addressing you, to congratulate you upon the healthy and prosperous condition of the city.

In submitting the annual reports of the various departments of the municipal government, I shall not enlarge the dimensions of this communication by copious extracts therefrom, or by the reproduction of the many recommendations therein contained.

The report of the Commissioners of Finance exhibits detailed statements as to the financial condition of the city. I extract from it this general information:

The Financial Condition of the Corporation, as of the 31st December, 1881.

Amount of funded debt December 31, 1881.....	$34,894,191 73	
Amount of guaranteed liabilities, December 31, 1881	1,492,000 00	
Amount carried forward,		$36,386,191 73

Amount brought forward,		$36,386,191 73
Less amount of cash in bank, set aside for the redemption of Water Stock 1875, now outstanding		$4,840 00
		$36,381,351 73
Of this amount interest is provided or paid as follows:		
The Baltimore and Ohio Railroad Company upon	$5,000,000 00	
The City Passenger Railway Companies upon. ..	555,566 25	
The Water Board from income upon	9,000,000 00	
The Union Railroad Company upon.....	117,000 00	
The Western Maryland Railroad Company upon	200,000 00	
		14,872,566 25
		$21,508,785 48
Productive Investments:		
The Baltimore and Ohio Railroad Stock, 32,500 shares at $180 per share	$5,850,000 00	
Baltimore and Reisterstown Turnpike Company Stock, 550 shares....	2,200 00	
Amounts carried forward,	$5,852,200 00	$21,508,785 48

Amounts brought forward,		$5,852,200 00	$21,503,785 48
Baltimore and Yorktown Turnpike Company Stock, 625 shares.....		3,125 00	
Frederick Turnpike Company Stock, 137 shares.		206 00	
Baltimore and Havre de Grace Turnpike Company Stock, 120 shares.		3,000 00	
The Sinking Funds value.		8,150,286 45	
The Real Estate, annual rental.....	$7,746 76		
The Wharf Property, annual rental.	25,000 00		
The Market Houses, annual income.	45,000 00		
	$77,746 76		
This provides interest upon.....		1,295,779 00	
			$15,304,596 45
Balance.			$6,204,189 03

Unproductive Investments:

Western Maryland Railroad Company, 4,000 shares stock.....	$200,000 00	
Amount carried forward,	$200,000 00	

Amount brought forward,	$200,000 00	
Western Maryland Railroad Company, mortgages to secure endorsements and loan of City Stock.....	2,175,000 00	
Western Maryland Railroad Company, accrued interest advanced.....	1,381,500 00	
Baltimore Susquehanna and Tidewater Canal Company Stock, 7,600 shares.....	380,000 00	
Baltimore and Hall Spring Railway Comp'y Stock, 714 shares.....	14,280 00	
Valley Railroad Company of Virginia Stock.....	1,000,000 00	
		$5,150,780 00

In addition to this, if the other property of the corporation, such as Court Houses, Record Office and the like, supposed to amount in value to $10,000,000, be brought into view, the unproductive assets would reach $15,150,780.

COMPARISON OF THE DEBT AS OF DECEMBER 31, 1881, WITH THAT OF DECEMBER 31, 1880.

The Funded and Guaranteed Debt on December 31, 1881, amounted to.....	$36,386,191 73
The Funded and Guaranteed Debt on December 31, 1880, amounted to.....	36,092,298 06
Increase of debt during the year.....	$293,893 67

Thus accounted for:

Amount of 5 Per Cent. Jones' Falls Loan, 1900, issued....	$ 40,400 00	
Amount of 4 Per Cent. Harford Run Improvement Loan issued.....	210,000 00	
Amount of Paving Loan, 1920, issued.....	45,000 00	
	$295,400 00	
Less amount of Water Loan, 1875, redeemed during the year.....	1,506 33	
		$293,893 67

The premium, realized on these loans, was $16,585.00.

INCREASE OF FUNDED DEBT AUTHORIZED.

The Jones' Falls Loan, by Ordinance No. 12 of 1880.....	$920,000 00
The Paving Loan of 1920, by Ordinance No. 131 of 1880.....	455,000 00
	$1,375,000 00

The SINKING FUNDS statement shows that on the 31st December, 1881, the value of the funds, estimating city stock at par, amounted to.....	$8,150,286 45
As of 31st December, 1880, they were.....	7,859,757 78
Increase of funds from accruing interest and other sources during the year.....	$290,528 67

WESTERN MARYLAND RAILROAD SINKING FUND.

This sinking fund, held by the Register in trust for the redemption of the bonds of the Western Maryland Railroad Company, guaranteed by the city, and the loan to it, has increased $9,793. The value of this fund December 31, 1881, was $204,159.09.

The report of the *Register* shows the receipts of the city from collections of taxes and other income proper for the support of the city government for the year ending December 31, 1881, as follows:

From City Collector, levy of 1881	$2,533,152 48	
" City Collector, levies of 1880 and previous years	1,170,204 39	
		$3,703,356 87
" public schools' tuition fees and J. F. Plummer		47,784 75
" markets		50,373 72
" wharfage		24,127 19
" general licenses		45,899 21
" auction duties		10,198 31
" Baltimore and Ohio Railroad Company, dividend on stock		325,000 00
" aggregate of sundry regular sources		32,663 54
Actual income		$4,239,403 59

The actual income in 1880 was $4,196,549.01, which shows an increase for 1881 of $42,854.58.

The actual expenses for the year ending December 31, 1881, were as follows:

Interest on the funded debt	$1,056,777 83
Expenses of Courts, jail, registration of voters, &c	235,274 32
Public schools, less amount received from State of Maryland	472,616 94
" for new buildings	19,346 71
City poor, including new building for insane	209,129 58
Sinking funds	435 29
Harbor Commission	85,994 88
Police Department	584,846 50
Health Department	268,464 82
Fire Department	198,305 06
Inspector of Buildings	80,037 10
City Commissioner	194,123 33
Inspector and Sealer of Gas Meters and Superintendent of Lamps	199,064 64
City Council expenses	53,283 02
Salaries	67,020 00
Special appropriation	12,687 34
State tax on city loans	10,318 92
Discount on taxes and interest on temporary loans	127,226 03
Lamplighters' salaries	43,680 00
Salaries and expenses of City Collector's office	44,197 07
General expenditures, being the aggregate of sundry items	143,618 46
Total actual expenses of City Government	$4,106,447 84

The expenses proper for the year 1878 were	$4,658,022 50
For the year 1880.....	3,947,799 27
For the year 1881.....	4,106,447 84

The floating debt (so called) is now but $29,774.48, as against $155,777.37 at the beginning of the year 1881; the tax levy of your predecessors having been sufficient to meet all actual expenses and effect a reduction in the floating debt of $126,002.89 a complete justification of the wisdom of their measures, and of the action of the Committee of Ways and Means.

The following statement from the Register's report gives the estimate of expenses and receipts for the year 1882:

The estimate of expenses for the current fiscal year, as detailed in statement B, amounts to the total of.....	$4,251,931 80
And the receipts from taxes in arrear, investments and other sources, as detailed in statement marked C, are	1,765,274 00
Leaving the amount to be levied for on the real and personal property in the city.....	$2,486,657 80

A trifle less than the estimates compiled in his office for the last fiscal year.

Your attention is called to the statement of the Register, that the North Baltimore Passenger Railway Company is in default of payment of $6,190.79, and the Citizens Railway Company is in like default, for $5,938.78, on account of the park tax on gross receipts.

The tables accompanying the Register's report abound in valuable information.

This satisfactory exhibit of the financial affairs of the city should incite your best efforts to follow in the same wise and economical course as that pursued by your predecessors.

From the report of the *City Comptroller* for the year ending October 31, 1876, I make the following extract, which I commend to your careful perusal. Speaking of the evil of appropriating more than the levy provides, he says: "The remedy for the evil is simple, practicable and just—*harmonize the tax levy and appropriation bills.* Make the necessary appropriations for the administration of the city government; then adopt a tax levy ample for the payment of them, allowing in addition thereto a liberal specified margin for unforseen contingencies. If, upon adding up the column of appropriations, it should require a greater levy to provide for the payment of the same than is just and proper to the taxpayers, strike from the list such items as can be dispensed with, or may be postponed without prejudice to the public interest, and thus bring down the appropriations to the minimum point, that will subserve effectively the ends of the municipal government. No well-regulated government will deliberately incur a debt without providing the means for its liquidation. If considerations of great public interest or necessity demand large appropriations, it is much better to exhibit the same to the public on the face of a tax-bill than to permit them to accumulate uncancelled, and in the end contribute to swell the stealthy and oppressive incubus of a funded debt."

This seems to have laid the foundation of that policy which has prevailed for the last few years—of making no appropriations after the tax levy has been adopted To this policy I propose to adhere, so far as I am a party to municipal legislation, and I trust its wisdom will impress itself upon the Council.

The report of the *Comptroller* gives in detail the items of receipts and expenditures of the municipal government.

I earnestly recommend the repeal of Ordinance No. 97, approved May 6, 1880, requiring the owners of private carriages, used on the public highways, to take out license therefor. I have grave doubts of its constitutionality, but none as to its injustice. The owners of these carriages and horses pay a tax on them as personal property; as house-owners, they already contribute to the paving of the streets, and yet they have this additional tax levied on them for the enjoyment of their personal property. It has failed to secure the object contemplated—revenue to be used in paving and repaving the streets. In 1880 it realized $10,702.50, while in 1881 the receipts from it fell to $6,639.92. The Comptroller gives the reason for this decrease in the revenue, and shows the difficulty in enforcing the ordinance. The law can not be complied with literally, nor can it be executed in spirit, except by the disfigurement of valuable private carriages, by changing annually the numbers, conspicuously placed on the axle. The license was paid for in 1880, under the apprehension that the law would be strictly enforced; but the difficulty of securing a faithful compliance with its harsh terms has

prevented its enforcement. It is an ordinance very obnoxious to public sentiment; produces little revenue now, and will bring less in the future, so that it would be wise policy to repeal it. Your attention is invoked to the comments of the Comptroller upon this subject.

The *City Collector's* report shows that the city and State taxes collected for the year 1881 amounted to $4,295,189.77, of which there was collected for the city $3,868,686.09, and for the State $426,503.68.

The gross collections for 1881 on city account were less than for 1880 by $46,384.47; but this is explained by the fact that the collections for opening and paving streets in 1880 amounted to $249,058.95, while in 1881 they were only $165,329.22—being a difference of $83,729.73; while the total collections (exclusive of those for opening and paving streets,) amounted to $3,703,356.87 for 1881, against $3,666,011.61 for 1880—showing an increase in these collections for 1881 of $37,345.26.

Table B shows the sources, from which these collections were made, to be as follows:

Taxes in arrear on a basis of $73,657,777...	$1,170,204 39
Current taxes on a basis of $184,901,640....	2,533,152 48
Assessments for opening streets.....	33,472 07
Assessments for paving streets.	131,857 15
	$3,868,686 09

As compared with collections during 1880, it will be seen that the collection of taxes in arrears fell short $168,224.05 on a basis of $2,701,480, whereas the collection on the current year increased $205,569.31 on the

basis of $15,005,061, or a net increase on basis of $12,303,581.

The taxable basis for 1881, as shown by table G, was $247,230,189, of which there was collected on $184,901,640 an amount equal to 74.79 per cent.; and deducting the amount of plants, $411,147, on which no city taxes were collected, it will show a collection for the year of 74.91 per cent. On the levy of 1880, present basis $240,036,122, collections were made to December 31, 1881, on $214,535,565—equal to 89.38 per cent.

Table F shows the basis on which taxes have been collected since 1876, and also the percentage of collections.

I invite your attention also to other interesting tables annexed to that report.

The report of the *Appeal Tax Court* shows the number of permits for new buildings for 1881 to have been 1,229, and for additional improvements 570.

Table C of the report gives in detail the new buildings and additional improvements erected during the year, and their cash value, which is estimated at $3,063,490.

The report shows an assessment of personal property for the year ending March 1, 1881, by the Bailiff's Department, to the extent of $5,351,056.

The following table shows the amount of arrears of taxes charged against the Collector, as of January 1, 1882:

1878, real	$ 394,881	
" personal	1,539,683	
		$1,934,564
1879, real	$11,714,504	
" personal	5,600,402	
		17,314,906
1880, real	$19,084,469	
" personal	6,416,088	
		25,500,557
1881, real	$49,078,459	
" personal	13,250,090	
		62,328,549
		$107,078,576

The report also suggests the need of additional legislation to secure a more equitable and effective system of taxation, but as this whole subject has been submitted to a Tax Commission for consideration, it will not be discussed at this time.

The report of the *Health Department* exhibits its work for the past year, and makes sundry suggestions to improve the efficiency of that department.

The expenses for the year ending December 31, 1881, were	$268,464 82
The expenditures for the year ending December 31, 1880, were	245,506 42
The estimates for the year 1882 are	280,000 00

The increase of the number of vaccine physicians to twenty—or one for each ward—as recommended by the Health Officer, is worthy of consideration.

Legislation is very desirable in regard to measures which should be taken to prevent the spread of epidemic diseases, and it is hoped that by co-operation with the State Board of Health, adequate laws may be enacted in this direction.

I recommend the appointment of a "Commissioner of Street Cleaning," and the withdrawal of that work from the Department of Health, and the transfer of it to the control of said "Commissioner of Street Cleaning," who should have entire charge of that business and of the removal of garbage, &c., with power to purchase street sweepers for the streets paved with blocks, and sprinklers to lay the dust while sweeping; and who shall be compelled to have the streets swept systematically, according to their location and necessities. This change, in my judgment, is absolutely indispensable. It has been tried, and worked successfully elsewhere. That but a small additional charge for this officer should be incurred, I recommend that he may be appointed in the place of one of the present Superintendents of Streets, and the number of them reduced to five.

The report of Dr. Howard, in charge of the Quarantine Hospital, exhibits the condition of that Institution during the year. He states that, the buildings are in such a wretched and dilapidated condition as to be a reproach to the city. He renews his recommendation, that the Pest and Quarantine Hospitals may be separated, and that a new wharf and buildings be erected at Leading Point, as a Quarantine Inspecting Station, and that part of the present property be retained for a Pest

Hospital. He advances good reasons for this recommendation, and considers prompt action in the premises as wise policy, considering the increased commerce of the port. He shows the number of vessels boarded and inspected in 1881 to have been 963, of which 295 were steamships.

The amount appropriated for this department last year was $14,000, with permission to use $1,500 of the collections made by the department. The expenditures were $15,494.24 for the year.

The report of the *Fire Commissioners* shows the workings of the department for the past year. There were 324 alarms of fire, and a loss of property to the extent of $454,773.35 during the year. The sum of $186,459.00 was appropriated and was entirely expended for the use of the department. The Commissioners complain that some of the apparatus is old, and has been so often repaired, that it would be economy to replace it with new machines.

The estimates for 1882 are $221,545.82.

The attention of the Council is called to the deficiency of water in certain localities, and the report of the Chief Engineer is referred to for fuller information on this subject. Reference is made to the condition of the engine-houses, to which your attention is specially called.

It is suggested in the report that the number of firemen in each engine company be decreased from eight to seven, and in the hook and ladder companies from ten to nine, and that an additional houseman for each com-

pany be provided, and it is believed this arrangement will greatly promote the efficiency of the service.

The subject of egress from public buildings, discussed in the report of the Inspector of Public Buildings, is also strongly presented in the Fire Report, and is entitled to your prompt attention. The recommendation of the Chief Engineer is adopted by the Board in regard to a fire-boat for the protection of property on the water front; and it is suggested that the steamtug Baltimore be fitted with a pump for fire purposes, and placed at the disposal of the Fire Commissioners. The fire at the Canton wharves on 28th November last is referred to as affording the strongest evidence of the necessity for a fire-boat.

Other detailed and minor improvements in the service greatly to be desired are explained at length in the report.

The report of the *Trustees of the Poor* shows the transactions of that Board for the past year.

They inform the Council of the progress made in erecting the separate building for the accommodation of the insane, for which an appropriation was made in 1880.

The sum appropriated, $50,000, has been expended, and the building is now under roof, and the Trustees ask for another appropriation of $50,000 for the completion of the structure.

It is greatly to be regretted that a sum, adequate for the purpose designed, should not have been estimated

for at the outset, and the whole cost of the work settled in the beginning, and appropriation made in accordance therewith, but the work being half done, it is desirable to complete it at the earliest practicable moment.

For information as to the work at Bayview Asylum, I extract the following succinct statement from the report:

"There were admitted to the Institution 2,117 persons. There were born in the building during the same period, 43 children, making a total of 2,160 who received the benefits of this Asylum during the year.

"The average number of inmates during the year was $733\frac{4}{12}$, being $28\frac{7}{12}$ more than the average number of the preceding year.

"The amount drawn, as per warrants, upon the City Comptroller, during the year, was $64,999.61, less $1,649.46 received from sundry sources, as per exhibit, and paid into the city treasury under existing city ordinances; also less $6,477.15 paid for the land for the site of the new Insane Asylum, purchased under ordinance of the Mayor and City Council, reducing the net amount expended by the Trustees for the year ending December 31st, 1881, to $56,873.00—the cost per capita being $77.55\frac{9}{12}$.

"The number in the house, at this time, is 808. Of the number at present in the Institution, 660 are white and 148 colored. Of the 2,160 admitted during the year, 1,095 were born in the United States, and 1,065 were of foreign birth. Of the number born in the United States, 474 claim their nativity in the city of Baltimore;

222 were born in the counties of the State of Maryland; and 399 claim their nativity in other States of the Union. Of the 43 infants born in the Institution during the year, 17 were white and 26 were colored."

The amount of the appropriation made by the city for the support of the Institution for the year ending on the 31st day of December, 1881, and for the purchase of land for the new Insane Asylum, was $65,000. Of the amount appropriated, $64,999.61 was drawn from the city treasury, less $1,649.46 paid to the City Register; also less $6,477.15 paid for purchase of land, as per ordinance.

The report of the *Board of Visitors of the Jail* discloses the operations of that Institution for the year 1881.

The expenses for that period were $55,713.54. The increased cost of articles requisite for maintenance of the prisoners, induces the Board to ask for a larger appropriation for 1882 than heretofore, and they estimate the necessary amount at $57,450. The Board is constrained, also, to ask for a special appropriation of $39,600.

The appropriation of $15,000 last year for the purchase of heating apparatus was found to be utterly insufficient, and after paying for plans, specifications and some other expenses, amounting to $465.48, the balance of the appropriation was covered into the City Treasury.

The heating apparatus will cost $25,000, and other needed improvements will absorb the balance of the appropriation asked for.

The report calls attention to the necessity of better provision for compliance with the law relating to the employment of the prisoners, and I urge this matter upon you as a duty as well to the prisoner as to the city.

The recommendations as to the care of witnesses, and the segregation of minors from adults, are eminently worthy of your serious consideration.

The number of prisoners committed during the year was 8,654. The earnings of the Jail for 1881, amounted to $3,093.55.

The report of the *Inspector of Public Buildings* shows the work of that department for the year.

Its statement of the condition of the new school houses, now in course of construction; of the improvements made in others, and the increased means of egress provided in many of them, is very satisfactory.

The work done, in pursuance of directions of the Mayor and City Council, on the City Hall, the Market Houses and other public buildings, will be found specially set out in the report.

The Inspector reports as the cost of a new Quarantine Hospital at Hawkins' Point, a sum between $22,500 and $27,000, and has prepared plans and specifications for suitable buildings. I urge the careful consideration of this subject.

The suggestions of the report in reference to the renumbering of the houses in the city, and to the additional safeguards for the people securing egress from public Buildings, and the repeal of the ordinance, in

regard to permits for awnings, meet my full concurrence.

The amount appropriated for 1881 was $132,319, of which there was disbursed the sum of $100,071.78, leaving an unexpended balance of $32,247.22.

The net revenue of the department for 1881 was $4,818.09. His estimates for 1882 amount to $54,566.88.

The report of the *City Commissioner* furnishes full information as to the operations of that department for the year. The recommendations therein contained are worthy of your best consideration.

Under the provisions of the enabling Act, passed by the Legislature of 1880, chapter 3, an appropriation was made by the Mayor and City Council, which was not to exceed $250,000, for which 4 per cent. bonds were issued, for the purpose of abating the Harford Run nuisance, as it has been termed.

The drainage which emptied into Harford Run was diverted from a point at the corner of Ann and Eager streets into the valley of Harris' creek. It has been a most successful transfer of a nuisance from one locality to another, but the nuisance itself will not be abated until the tunnel is completed by its extension to tide-water. I recommend, therefore, that an enabling Act be asked from the General Assembly, under which an appropriation may be made by the Mayor and City Council, not to exceed the sum of $300,000, to be realized from the issue of 4 per cent. bonds, for the extension of this tunnel from Monument street, along the

bed of Patapsco street, or in some other direction, to tidewater, so as to carry off the water from Harford Run and Harris' creek. The report of the City Commissioner enters more fully into this subject. Its details of the work done upon the minor sewers, and the expense incurred in their repair, forces upon you the consideration of the necessity (which seems to me imperative) of establishing a system of sewerage which will afford certain relief from the dangers and difficulties now surrounding us in this regard.

The Council will obtain much instruction from an exhaustive report on the "Sewers of Brooklyn," by Col. Julius W. Adams, embodied in the report of the Board of Health of that city made in 1877.

I have examined the report on a "Plan of Sewerage" made to the last City Council by C. H. Latrobe, Esq., and commend it to the consideration of the present Council as embodying a succinct statement of the benefits and defects of systems adopted elsewhere, and full of sensible suggestions for our own guidance when we undertake such a work in our city.

The City Commissioner calls attention to the work of repaving streets, done under provision of ordinances specially referred to, and to the difficulty in the way of paving Eutaw Place, from Laurens street to North avenue, of which I invite your examination.

It is my judgment that the paving and repaving of the streets should be done by the corporation itself. The city can purchase the Belgian or asphalt blocks from first hands, and lay them more cheaply and better

under city officers than by contractors; and this would not precipitate the laying of pavements in advance of their need. The superintendents now employed in watching contractors would earn their salaries out of the profits saved by the reduced cost of the work.

The Commissioner shows that the repairs of the streets now done by the department itself have been more cheaply executed than they were formerly done by contract. Besides, from the competition of bidders, oftentimes the work taken is done at prices too low for profit, and consequently the work is slovenly executed, and under pressure, is passed by those in authority, and its worthlessness only discovered when the cost has been put on the city.

The reference to the condition of Light street bridge demands your prompt attention. I have made a personal inspection of it, and concur in the suggestion of the Commissioner.

The recommendation of the Commissioner in regard to the drawbridge, and the inadequacy of the sum appropriated for a steam engine to move the draw, under Resolution No. 181, approved May 25, 1880, is endorsed, but I would suggest that inquiry should be made whether the work could not be accomplished as quickly and as well, at less expense, by the use of a hydraulic engine, and the water power utilized.

You will also learn from this report the amount of work done upon the Jones' Falls improvement during the year.

The report of the *Water Board* shows the receipts to have been		$770,847 14
Less discount, 1881, water rent.	31,274 03	
		$739,573 11
With balance on hand December 31, 1880.	111,500 09	
		$851,073 20
And the disbursements	828,989 52	
Balance as of December 31, 1881		$22,083 68

The source whence these receipts were drawn are fully set forth in the tables accompanying the report.

The net revenue in 1880 was	$606,879 06
" " 1881 "	597,264 78
Decrease in revenue in 1881	$9,614 28

This is accounted for by the reduction in the price of water by meter from 15 cents to 8 cents per thousand gallons.

The sum of $128,528.27 has been expended during the year out of the revenue of the department for permanent improvements.

In 1881 $452,630.00 have been paid upon $9,000,000 of Water Bonds.

Description of the "Water Works"; its cost; the contemplated improvements at Lakes Montebello and Clifton, is elaborately given in "An Account of the Water Supply," published in pamphlet form by the Water Board.

Full details of the work and improvements for the past year will be found in the report of the Civil Engineer, which accompanies the report of the Board.

I call your attention to the suggestion of the Civil Engineer in regard to the completion of Lake Clifton, which he deems "of the greatest importance to the perfect working of the Gunpowder supply." On completion of this lake the city will have 265,000,000 gallons more storage, and the tunnel between Lake Montebello and Lake Clifton can be cleaned without disturbing the city supply. Should this meet your concurrence, it would be necessary to have the proper legislation to create a new debt to the extent of five hundred thousand dollars for the completion of this work, and for laying additional mains into and through the city.

I also recommend that proper authority be given to the Water Board to purchase, and pay for out of the revenues of that department, a tract of land adjoining Loch Raven, comprising about 168 acres, which is necessary for the works at that point, and which will cost not over ten thousand dollars.

The Board recommends the reduction of the charge for water, per horse-power, now at $5, to the sum of $2.50, with privilege to be rated by meter, if preferred, as at present fixed by ordinance; but it is suggested that no meter be allowed when the consumption is less in cost than the price fixed for houses or warehouses.

Under the provisions of section 46, article 53, of the City Code, the Water Board is authorized to erect public fountains "for the use of human beings and dumb animals" in such localities as will best subserve the

public interests. Many of these fountains have been erected. They should be largely increased in number to meet the wants of the people, and liberal appropriation is desirable to secure this result. Large and ornamental fountains should also, from time to time, be erected in localities where the overflow water could be utilized in cleansing the sewers and aiding to dissipate their offensive contents.

I renew a suggestion made by me when assuming this office:

"I shall strive to aid in devising some means to furnish our citizens with water free of charge, leaving the expense of the maintenance of the water establishment to be levied for as other taxes. It seems inequitable that all the territory of the city obtains the benefit of the water supply, while its cost is paid by those only who use it on their premises. The consolidation of the Water and Tax Departments would lessen the amount to be raised by taxation, and the blessed boon of pure water be carried into the homes of all the city's inhabitants."

No valid objection has yet been urged against this proposition, and I respectfully submit the matter to your wise judgment. About 48,000, out of 90,000 houses and warehouses in the city pay water-rent. It is estimated that the annual revenue from these houses and warehouses is about $403,192. The interest on the $9,000,000 Water Bonds in 1881 amounted to $452,630, and the working expenses of the department to $80,000, or thereabouts, so that a tax of twenty cents—two cents less than that

levied for the police force—would realize ample means to meet these demands.

To the taxpayer who lives in a house assessed at $3,000, and having a front over 17 feet wide, and who now pays $12 per annum water-rent, the advantage is at once apparent, as the charge of 20 cents on his tax-bill would require but $6 for its liquidation.

To the owner of small dwellings, who refuses his tenants the blessed boon of pure water in a city where it abounds, but who would be called on to pay his proportion of water tax, it would be a constant reminder of duty, and eventually secure to the occupant this necessary aid to cleanliness and health. If these suggestions shall accord with your views, I trust that initiatory measures may be taken at your earliest convenience.

The two sources of water supply—Jones' Falls and the Gunpowder—should be at once utilized to drive machinery for manufacturing purposes. From the Gunpowder supply, six 40-inch cast-iron mains are laid from Lake Clifton. Two 40-inch mains have been brought into the city; the remaining are for our future wants. The water power for manufacturing use is believed to be ample, but proper tests should be applied, to ascertain exactly the sort of motor or machine best calculated for the purpose. Such a motor would dispense, in the heart of the city, with the necessity of small steam boilers for light manufacturing purposes, to which so much objection is urged.

The cost of the water power should be put at the lowest figure, deducting from the charge an amount

equal to the cost of water to a warehouse, so as to put all on an equality under the free system suggested herein.

The report of *The Park Commission* exhibits the amount of its receipts and expenditures as follows:

Balance on hand December 31, 1880.....	$ 7,024 89
Receipts from city passenger railways.....	90,492 05
Receipts from rents, sales of sheep, &c	2,290 57
	$99,807 41
Less amount paid as interest on Park Stock..	33,333 96
Remaining for Park purposes.....	$66,473 45
Expenditures for Druid Hill Park.	$54,986 87
" " Patterson "	12,170 69

The Mayor and City Council maintain, by direct appropriation, Riverside and Federal Hill Parks.

The report furnishes very reliable data for the ascertainment of the cost of keeping in order Druid Hill and Patterson Parks, exclusive of new work thereon, by taking the average for the last five years, showing the expenditures for Druid Hill Park to be $40,010 per annum, and for Patterson Park $12,384 per annum, making a total of $52,394.

Should the park tax be taken off the city passenger railway companies, this sum, together with the interest on the Park Stock, amounting to $33,333.96, making in the aggregate $85,727.96, must be raised by general taxation.

The report gives in detail the work done during the year upon Druid Hill, Patterson, Federal Hill and Riverside Parks, and to it your attention is respectfully called.

Resources of Druid Hill and Patterson Parks, as of January 1, 1882, were as follows:

Balance in Treasury	$	176 44
Due by Citizens' Railway Company, two quarters		5,938 78
Due by North Baltimore Railway Company, three quarters		6,190 79
*Due by York Railway Company		599 96
*Due by City Passenger Railway Company		6,924 95
	$	19,830 92
Deduct one month's interest		2,777 83
	$	17,053 09
Unpaid bills January 1st		18,159 20
Deficit	$	1,106 11

The excess of indebtedness ($1,106.11,) includes all the heavy work on the North avenue or Mount Royal entrance.

The report of the *Commissioners for Opening Streets* gives the number and names of streets opened, and the cost of the same, for the year 1881. The Commissioners call attention to the defect in Ordinance No. 118, approved November 1, 1881, and suggest its repeal. The amount for opening streets charged against the city, was

* Since paid.

$105,884.35, and for expenses $5,198.97, for the year 1881. In 1878 the amount charged to the city was $31,008.11, expenses $8,543.58. In 1879 the amount was $57,753.25, and $6,957.36 for expenses.

Uncompleted street condemnations were suspended in 1880. The figures above, indicate very largely increased demands on the city treasury in the near future.

The report of the *Harbor Board* will show its operations for 1881.

The amount of deposit excavated during the year was 243,796 cubic yards, which cost $50,256.95, or an average of 20.61 cents per cubic yard.

The result of the work, and the localities in which it was distributed, are fully set out in the report. Attention is called to the fact that the General Government has committed itself to the completion of a twenty-seven-foot deep ship channel to this port, and a large sum was appropriated and is now being expended in that direction; and it is expected that the city will make adequate appropriations to meet this improvement by increasing the depth in the lower harbor.

A new wharf, 125x22 feet, has been erected at the foot of Cross street, and a stone bulkhead, at the north side of City Dock, to replace the old wooden structure, has been completed to a length of 225 feet. Repairs on several wharves were done during the year. An account of the work of the iceboat "Latrobe" during the winter of 1880–'81, is given in the report.

The estimates for 1882 are $95,000.

I have received a summary of the report of the *Commissioners of Public Schools*, which gives in detail an account of the workings of this department during the past year.

The following statistics are gathered from their report:

The number of schools under the charge of the Board during the year 1881 was 120, containing 35,630 enrolled pupils, classified as follows:

1	Baltimore City College	543
2	Female High Schools	885
39	Grammar Schools	10,621
59	Primary Schools	15,801
5	Public (formerly English-German) Schools	3,436
14	Colored Day Schools	4,334

These schools have been conducted by 824 teachers, with an average daily attendance of 29,424 pupils; and the whole number of different pupils during the year was 47,048.

Number of	white pupils	31,286
" "	colored "	4,344
" "	pay "	12,203
" "	free "	23,427
" "	city "	35,374
" "	non-resident pupils	256

The usual annual increase in the number of pupils has been about 1,000, but it has not been so large during the past year, owing, in part, to the existence of epidemic diseases throughout the city, which has prevented the usual attendance and increase of pupils.

The total receipts from all sources for the support of the schools were as follows:

City Collector (city taxes)	$413,457 45
State Treasurer for white schools	131,814 47
" " " colored schools	18,550 69
White pupils, for use of books	46,835 01
Colored " " " "	92 25
Estate of Annie Gibson, intestate	188 63
" " Michael Raul, "	539 27
" " Patrick Gordon, "	335 19
" " Patrick Barton, "	527 20
John F. Plummer, interest on legacy	129 59
	$612,469 79

The amount received from the Treasurer of the State was $3,061.17 more than during the previous year; and the receipts from pupils for the use of books were $764.36 more than in 1880.

The city annually contributes to the general school fund of the State a much larger amount than it receives as its proportion of the distribution, and thus assists in paying the expenses of the county schools.

The number of non-resident pupils was 256, and the amount received from them was $4,075.68—being $743.37 more than the year 1880.

The expenditures by the Board for current expenses of the schools were as follows:

Salaries of officers and teachers	$456,702 41
Rents and Ground Rents	24,444 69
Amount carried forward	$481,147 10

Amount brought forward	$481,147 10
Books and stationery	32,674 80
Heating apparatus and repairs	11,149 36
Furniture, school desks, etc	6,810 85
Fuel—coal and wood	17,014 19
Repairs and cleaning school-houses	4,428 43
Printing, school supplies, &c	6,233 95
Total for white schools	$562,458 68
Amount expended for colored schools	60,531 17
Total amount for all schools	$622,989 85

The appropriation made by the city for the support of the schools was much less than the estimate submitted, and the result was that the amount was insufficient to pay the necessary current expenses. The Board was therefore compelled to deduct twenty per cent. from the teachers' salaries for the month of December, to enable it to discharge other claims, and has asked the City Council to make a special appropriation to refund the amount thus deducted.

The estimates for 1882 are as follows:

For Salaries, white schools	$470,000
" Rents and ground rents, white schools	26,500
" Books and stationery, "	35,000
" Heating apparatus, "	14,000
" Furniture, "	15,000
" Fuel, "	15,000
" Repairs and cleaning, "	4,500
" Printing, supplies, &c	8,000
" Colored schools	62,000
	$650,000

The Board adds:

"The above estimate has been made after a careful consideration of the wants of the schools during the present year, and is submitted with the hope that the full appropriation will be made. It is in excess of last year; but the schools required many supplies and appliances which could not be obtained for want of money then, and the Board desires to furnish all that is now needed for the use of teachers and pupils."

"Our Public-School system, which was once weak, is now strong, and enjoys public confidence. It has been controlled and advanced by a spirit of judicious conservatism, which holds to that which is good, and strives for improvement in the future. Its future success will depend upon its proper support and management. It should continue to be free from the baneful influences of sectarian and party feeling, and no one should be appointed to any position in our schools as a reward for partisan fealty."

Appropriations are asked for the new school houses to be erected on the lot on Linden avenue, near Wilson street, and the lot at Locust Point, referred to in the report.

The report of the *City Solicitor* gives accurate information of all suits which are now pending in the Courts, or which have been disposed of during the past year.

The exhibit is highly satisfactory.

It will be observed, that the long pending controversy with Messrs. Platt & Co., in relation to the 'Old Fish

Property,' which began more than ten years ago, has been finally adjusted by their payment of $21,393.25 into the City Treasury, and by the execution of a new lease from the city, as decreed by the Court, covering the property to which the city held title.

The report of the *Inspector of Gas and Illuminating Oils,* which is herewith submitted, shows a diminution in the number of accidents arising from the use of kerosene and gasoline.

Attention is called by him to the defects in the present ordinance on the subject of license to dealers in these dangerous oils.

The illuminating power of gas furnished in the city has uniformly been above the standard.

The *Superintendent of Lamps and Inspector of Meters* reports an increase of 314 gas lamps and a decrease of 87 gasoline lamps during the year.

The electric lights put up in Hopkins' Place, November 10, 1881, seem to have given general satisfaction.

The superintendent recommends the appointment of eight additional lamplighters, for reasons which he gives in his report, and which meet my approval.

The report of the *City Librarian,* exhibiting the condition of the library for 1881, is also herewith submitted.

The report of the *Trustees of the McDonogh Educational Fund* presents a satisfactory exhibit of the condition of the school, and of the management of the fund.

From personal knowledge, I commend this well organized and well conducted Institution to your highest consideration.

I commend to your liberal consideration the various public, charitable and reformatory schools, which have heretofore been your agents in caring for the city poor, viz: the St. Mary's Industrial School, the House of Refuge, House of Reformation for Colored Children, &c., some of whose reports are herewith submitted for your information.

Under the provisions of Ordinance No. 42, approved April 14, 1881, relating to the *Maryland Institute,* all the pupils have been duly appointed according to the terms of the ordinance; and the Mayor, Comptroller and Register have inspected the Schools of Art and Design and found them to be well arranged, admirably conducted, and eminently worthy of the support and encouragement given to them by the city.

I urge upon your consideration the necessity of obtaining, without delay, a topographical map of Baltimore city and of the adjacent territory, for, at least, four miles into Baltimore county. No system of sewerage, of passenger railways, of street opening, of water service and the like, can be properly conducted without accurate knowledge of the topography of the city and its surroundings.

From this map there should be minor impressions, giving full statistical information, in a graphic form, of the valuation of real property; the established grades

of streets; the street pavements; street lamps; water mains; sewers; engine houses; fire-plugs and fire-alarm boxes; street railways; telegraph and electric lines, with a schedule of the street sweeping, conducted upon a systematic plan. Such maps of Washington and its surroundings have been prepared by the Engineer Department of the Commissioners of the District of Columbia, and are of incalculable value to their proper conduct of municipal affairs. These maps can be secured through the aid of the United States Coast Survey office, from which officers would be detailed to do the work at the lowest possible cost.

This subject is worthy of your prompt attention.

I beg permission to repeat, here, some remarks made by me when assuming the office of Mayor, the soundness of which, time and experience have fully confirmed:

"I believe that the best guarantee of faithful performance of duty is to be found in individual responsibility.

"The head of the city should be responsible to the people; the heads of subordinate departments should be responsible to the city executive. No unpaid commissions should share the responsibility of the Mayor, or tie his hands in the discharge of executive duty; for if the work is badly performed he can shield himself behind their willful obstruction or their want of fidelity. I refer to governing commissions and not to those administering the public charities, or keeping open the channel to and the harbor of Baltimore, or devising

systems of taxation, or executing legislative commands in the erection of public buildings, and the like.

"Government by commissions, instead of by individual action, was long since exploded as wholly pernicious."

Prior to 1822, Boston had been governed by paid and unpaid commissions, and when Mr. Quincy entered the mayoralty he found himself confronted with a hostile array of commission-lovers. In his work on the municipal history of Boston, he thus describes these boards:

"Among the defects of the ancient town organization was the division of the executive power among several independent boards, whereby the responsibility of the individual member of each was lessened, and that which did exist, could easily be transferred from one board to another."

Five distinct boards existed at that time,—Health, Surveyers of Highways, Overseers of the Poor, of Firewards and of the Select Committee.

"Some of them had exercised, under the same name, the same powers from very distant, and others from the most ancient, periods of the existence of the town. Each had proportions of efficient power and local influence; each, friends, by whom, and circles, within which, the exercise of its particular authorities was deemed useful, and others indispensable.

"With some, emoluments were connected, and with all, the pleasure of exercising 'beneficial' authority and enjoying useful distinction."

"This division of executive power among independent boards, was evidently incompatible with its efficient

exercise, and with that personal responsibility which the terms of the City Charter had devolved upon the Mayor, and which the people had been led to expect from the individual who might hold the office."

Mr. Quincy saw the difficulty of attempting to abolish institutions so long familiar to the people, and its danger of subjecting him to abuse and calumny, but he deemed duty more imperative than comfort, and trusted to the advantages to accrue to the people from the abolishment of boards, "behind which a weak, a cunning or indolent executive officer might take refuge to hide imbecility or selfishness, or find an apology for inefficiency."

He believed that "one of the greatest securities for public virtue and for the exact performance of official duty, is a sense of responsibility. Whoever means to be faithful to himself or his trusts, will enlarge and multiply occasions for keeping alive this sense in himself and in those whose interests he is called upon to protect."

"A disposition to evade labor and responsibility is the best criterion of a want of qualification for any office."

These were the sentiments of Mr. Quincy, and under their influence he made a successful struggle for the people.

Later experience in New York, under the Tweed regime, showed the danger of these many-headed commissions. Much was subsequently done to cure the defects of such a system, but the city of New York is still suffering under this incubus, and the protest of the Mayor of that city against its continuance has received

almost universal support. His recent message contains these remarks: "All executive departments should be under the control of a single responsible head, and in their turn, the heads of departments should be subject to the control of the Chief Executive, who should have full power of appointment and removal in him—the Chief Executive being such in fact as well as in name. Responsibility, to be efficacious, must be personal and individual."

The present able Comptroller of New York city adds his testimony upon the subject in his report for 1882, in this language: "Observation and experience have satisfied me that one of the great evils of our city government is, the large and useless number of employees or attaches connected therewith, arising chiefly from political considerations, and very largely from the defect of the city charter, under *which many of the departments are governed by triple and quadruple heads.*"

Fortunately, we have been free from scandals attaching to our commissions, but I recall defalcations and disagreeable proceedings of subordinates in three, at at least, of these Boards of Commissioners, while I know of none occurring in departments under the charge of one chief officer. Therefore, I suggest that no more unpaid commissions be created, and that those whose services can be dispensed with may be abolished.

The water works have been finished, with the exception of Lake Clifton, and the whole work is now practically under the control of the Chief Engineer, by virtue of the consolidation of the positions of Water Engineer

and Civil Engineer, in pursuance of Ordinance No. 46, approved April 5, 1880.

With full appreciation of the services of this Board, and high respect for its members, it is my judgment that there is no necessity for any Board in the future management of this department, but that the Chief Engineer and the Water Registrar should have control of its operations, under the supervision of the Mayor.

For similar reasons I see no need for the continuance of the Board of Fire Commissioners; and I make like suggestion, that this department be placed under the charge of the Chief Engineer, subject to the oversight of the City Executive.

In any event, wherever commissioners are continued, I urge upon your Honorable Bodies the repeal of the ordinances extending their terms beyond that of other city officers—that is, that they shall be annually appointed.

In regard to the Harbor Board, being connected with commerce and navigation, it may be considered useful as an advisory committee upon a subject specially important to the mercantile interests of the city.

The Boards of Visitors to the Jail and of Trustees of the Poor, considering the character of their work, being *quasi* administrators of public charities, and expected to be guardians of the unfortunates committed to their care, are not liable to the objection which has been urged against unpaid commissions in general.

In my opinion, it is due to the city of Baltimore that its Chief Executive Officer should be at the head

of the *Police Board.* The expense of maintaining the Police Force for the protection of our property and the lives of our citizens, is a charge upon the tax-payers of the city, amounting to nearly six hundred thousand dollars annually, and yet, by the terms of the law, while all the liability of the Mayor and City Council for the faithful discharge of all its obligations is preserved, the Mayor and City Council is prohibited from all "control over said board or any officer of police, policemen or detectives appointed thereby."

The violation of all city ordinances is to be punished, and the Mayor is to see all ordinances faithfully executed, and yet he cannot control any police officer, or direct him in regard to the enforcement of any penal ordinance whatever. During the prevalence of epidemic diseases, when isolation of the affected is so necessary and the seclusion of the people from the infected district so important, the Mayor has no power to use any portion of the police force, as a guard, to keep the well from coming in contact with the diseased. The local authorities of Baltimore county have full authority to appoint their own police officers for the territory surrounding the city, while a like privilege is denied to the municipal authorities of Baltimore. No good reason has been urged against this proper demand, that the Mayor shall be one of the Board.

The Legislature of 1860, the first to take from the local authorities of Baltimore the control of its police department, recognized this proper claim, and made the Mayor for the time being one of the five persons constituting the Board of Police.

Under the provisions of the Act of 1867, chapter 347, section 815, the fines and forfeitures paid to the Board of Police Commissioners are to be used for special purposes stated in the law; that is, for injured policemen and their families, in case of those killed in performance of duty; but the purposes, for which said special fund is provided, have rarely, if ever, demanded any outlay of it. At the time of the last report of the Board, there had accumulated in the hands of their treasurer $20,000, which had been invested in United States bonds, and $15,756.46 in cash, so that with the premium on the bonds, nearly $40,000 is now under the control of that officer.

The Treasurer gives a bond for ten thousand dollars as Treasurer and one for ten thousand dollars as Commissioner, while, as seen, he holds at this time in cash or its equivalent, forty thousand dollars. It is in safe hands beyond question, but this is not the true mode of caring for the money of the people.

This money should be paid into the City Treasury, from time to time, as collected, and should be used to reduce the cost of the Criminal Court, whose expenses are largely increased by the petty cases sent to it from the station-houses when the accused are unable to pay the fines.

I respectfully suggest that the Council, by resolution, memorialize the Legislature to provide for a new registration of voters, and for authority to redivide the wards and to increase the number of voting precincts.

Whatever may be said of the lists of voters in the counties, it is undeniable, that those in this city present

no fair enumeration and description of persons who are qualified by law to exercise the elective franchise. It is idle to hope for peace and prosperity in a free country, where the majority of the citizens are entitled to rule, if fraud at the ballot-box can be practiced with impunity. The population of the wards should be more equally divided, and the precincts for voting so increased, that by reducing the number of electors in each, the means of detecting fraudulent voters shall be proportionately increased.

I have no means of ascertaining the number of miles of telegraph, telephone and electric wires now in use in this city, but their extent must be very great.

The poles, upon which these wires are suspended, constitute a constant source of complaint, and are an ever-present eye-sore. There seems to be no remedy for it, except by compelling all such companies to lay their wires underground. This method has been successfully tried for fifteen years past in all great cities in Europe, and there are now over 1,000 miles of underground wires in use abroad. In Paris there are one hundred and nineteen miles in successful operation. I believe, that in the thickly settled portions of London and other large cities abroad, not a telegraph pole can be seen. Full details of the mode of laying underground wires can be obtained by consulting almost any standard work on practical telegraphy. I do not propose to discuss, what may be the most desirable method, but the wires could be laid either under the street gutters, or under the sidewalks. The exact method of insulating,

or of laying the wires in the trenches, &c., must be left to the companies themselves, or to experts competent to suggest the best system.

The use of electricity for lighting, and for motors, in lieu of steam power, for light manufacturing purposes, is destined to become almost universal; and as there is some danger incident to the use of electric wires not sufficiently protected, now is the fitting time to take precautionary measures to secure their complete insulation and separation at a proper distance from each other. If this is done with care, there is no more danger from the use of electricity than from gas. It is well, therefore, in the incipiency of this useful process of lighting and of motive power, that the wires should be placed underground, where there will be less danger of the current being diverted from its proper course by contact with other wires.

In this connection, let me suggest that State legislation be sought, to protect the streets of the city from the frequent breaking and tearing of them, without the consent of the municipal authorities, by telegraph, gas and other companies, under the provisions of the General Corporation Act and its supplements.

I transmit herewith a communication from the "Maryland Dairymen's Association," urging a provision by law for the inspection of all milk sold publicly in this city. as a matter affecting the health of so large a proportion of the population of Baltimore. I invite your attention to the subject.

In all measures tending to advance the material prosperity of the city, and to lessen the burdens on the people; to promote the cause of education, and to elevate the standard of good citizenship, my faithful co-operation is assured.

WM. PINKNEY WHYTE,
Mayor.

REGISTER

OF THE

CORPORATION OFFICERS

OF

BALTIMORE CITY,

FOR THE

Year 1882.

REGISTER

OF THE

CORPORATION OFFICERS

OF BALTIMORE CITY,

FOR THE YEAR 1882.

Mayor's Office.

WM. PINKNEY WHYTE, *Mayor.*
J. MONROE HEISKELL, *Secretary to the Mayor.*
ANDREW J. KING, *Clerk to the Mayor.*
THOMAS J. MURRAY, *Mayor's Detective.*
WILLIAM H. RILEY, *City Messenger.*

Register's Office.

JOHN A. ROBB, *Register.*
S. TURNER DUVALL, *Deputy Register and Cashier.*
J. SEWELL THOMAS, *Chief Clerk.*
WM. C. MARTIN, *Assistant Clerk.*
CHARLES M. GORDON, *Transfer Clerk.*

Comptroller's Office.

JOSHUA VANSANT, *Comptroller.*
JAMES R. HORNER, *Chief Clerk.*
JOHN H. DUVALL, *Assistant Clerk.*
JOSEPH VANSANT, *Assistant Clerk.*

Law Department.

JOHN P. POE, *City Counselor.*
THOMAS W. HALL, *City Solicitor.*
JOHN GILL, JR., *Examiner of Titles.*

Members of the First Branch City Council.

I. PARKER VEAZEY, *President.*

First Ward.....Nicholas Tegges.
Second Ward.....Thomas H. Hamilton.
Third Ward.....J. Vernon Campbell.
Fourth Ward.....Edward A. Burke.
Fifth Ward.....Charles S. Moran, JR.
Sixth Ward.....Richard J. Penn.
Seventh Ward.....Dr. D. C. Ireland.
Eighth Ward.....William E. Broderick.
Ninth Ward.....John J. Mahon.
Tenth Ward.....Charles R. Scarff.
Eleventh Ward.....Skipwith Wilmer.
Twelfth Ward.....I. Parker Veazey.
Thirteenth Ward.....Thomas W. Terry.
Fourteenth Ward.....W. Starr Gephart.
Fifteenth Ward.....Lewis Reitz.
Sixteenth Ward.....John L. Matthews.
Seventeenth Ward.....John F. Weyler.
Eighteenth Ward.....Thomas H. Graham.
Nineteenth Ward.....Dr. J. G. Linthicum.
Twentieth Ward.....James W. Denny.

A. V. Milholland, *Chief Clerk.*
W. B. Fitzgerald, *Reading Clerk.*
Henry A. Schultz, *Committee Clerk.*
George W. Green, *Sergeant-at-Arms.*
Joseph Krager, Lawrence Mayberry, } *Doorkeepers.*
Henry Seyfried, *Page.*

Members of the Second Branch City Council.

ALVIN ROBERTSON, *President.*

First and Second Wards—Patrick Rigney.
Third and Fourth Wards—William J. Kelly.
Fifth and Sixth Wards—John B. Wentz.
Seventh and Eighth Wards—Robert Johnston.
Ninth and Tenth Wards—Henry G. Fledderman.
Eleventh and Twelfth Wards—D. Giraud Wright.
Thirteenth and Fourteenth Wards—Alvin Robertson.
Fifteenth and Sixteenth Wards—M. E. Mooney.
Seventeenth and Eighteenth Wards—James F. Newbold.
Nineteenth and Twentieth Wards—John M. Dulany.

Jesse N. Bowen, *Chief Clerk.*
James T. Dorsey, *Assistant Clerk.*
Capt. James Hall, *Committee Clerk.*
M. Farrell, *Sergeant-at-Arms.*
Paul G. Crout, *Doorkeeper.*
James Kelly, *Page.*

Department of Finance.

His Honor, Wm. Pinkney Whyte, *Chairman.*
James Sloan, Jr, Robert T. Baldwin.

Tax Department.

Henry S. Taylor, *City Collector.*
J. T. M. Barnes, *Deputy City Collector.*
Richard G. Ducket, *Cashier.*
Clapham Murray, *Assistant Cashier.*
Joshua B. Williams, *Book-keeper.*
Wm. C. Bordley, Jr., *General Cash Book-keeper.*
Frank Nicholson, *Transfer Clerk.*

John H. Duvall,	*Ledger Clerk.*
James K. Harwood,	"
A. B. Upshur,	"
Jas. T. Welslager,	"
Jno. F. Donohue,	"
Hugh M. Gatchell,	"
Wm. Brown,	"
Henry McGinnity, Jr.,	"
Ambrose McBriety,	"
Chas. Schwartzhaupt,	"
Andrew J. Pennington,	*Bailiff.*
Wm. H. Russell,	"
Joseph C. Feldhaus,	"
Isaac S. Sanner,	"
M. P. Caughy,	"
Jno. T. Ross,	"
Jno. H. Bell,	"
Frank Dandelet,	"
Robt. R. Kirkland,	"
Robt. W. Hays,	"
C. J. O'Brien,	"
Jno. M. Travers,	"
C. M. Hobbs,	"
J. N. Foster,	"
Patrick Scanlon,	"
Jno. Hamburger,	"
Martin A. Sisson,	"
Geo. W. Spicer,	"
G. M. D. Wood,	"
Jos. Thompson,	"
Michael Stanton,	"
William Sigmund,	"

W. H. Mullen, *Bailiff*,
Thomas Sheppard, "
John F. Leonard, "
J. T. Omohundro, "
J. Glenn Pitts, "
Wm. C. Crone, "

Judges of Appeal Tax Court.

H. Clay Dallam, Oliver P. Price, J. Latimer Hoffman.

H. P. Mowinckle, *Chief Clerk.*
Michael H. Doyle, *Assistant Clerk.*
Michael Roche, *Assessor.*
W. W. Orndorff, "
James S. Morrow, "
James F. Deale, *Clerk to Assessors.*

City Commissioner's Department.

Thomas S. Wilkinson, *City Commissioner.*
Newton M. Gray, *Assistant City Commissioner.*
Christopher Billopp, " " "
Wm. Nicoll, " " "
John E. Toole, *Clerk.*

City Library.

Samuel D. Smith, *Librarian.*
John G. Scott, *Ass't* "

Inspector of Public Buildings' Office.

John S. Hogg, *Inspector.*
J. Theodore Oster, *Assistant Inspector.*
F. W. Elder, *Clerk.*

Commissioners for Opening Streets.

John B. Williams, *for one year.*
Dr. M. W. Donavin, *for two years.*
John McWilliams, *for three years.*
Robert F. Green, *Clerk.*

Health Department.

Commissioner of Health and Registrar.

George W. Benson, M. D.

Assistant Commissioner of Health.

James F. McShane, M. D.

Resident Physician Quarantine Hospital of the Port of Baltimore.

James McHenry Howard, M. D.

Secretary.

A. Robert Carter.

Nuisance Clerk.

V. B. Hines.

Registrar's Clerk.

William T. Hall.

Permit Clerk.

B. M. Benson.

Assistant Registrar's Clerk and Assistant Permit Clerk.

Montgomery Lawrence.

Collector of Mortuary and Vital Statistics.

Emanuel Weinman.

Index Clerk.

George C. Vansant.

Sanitary Inspectors.

Joseph V. Fitzpatrick,
George E. Brown,
John E. Durding,
Henry M. McKewen,
Samuel A. Clagett,
George R. Cragg.

Vaccine Physicians.

1st and 2d	Wards	J. C. McPherson,	M. D.
3d and 4th	"	S. H. Martin,	"
5th and 6th	"	W. N. Hill,	"
7th and 8th	"	Silas W. Hunter,	"
9th and 10th	"	J. H. Scarff,	"
11th and 12th	"	W. F. Lockwood,	"
13th and 14th	"	B. F. Phillips,	"
15th and 16th	"	Ellis Micheau,	"
17th and 18th	"	William A. Jones,	"
19th and 20th	"	Frank J. Flannery,	"

Superintendent of East Baltimore Public Cemetery.

Michael H. Coleman.

Superintendent of West Baltimore Public Cemetery.

Frederick A. Kerchner.

Superintendent of Eastern District Sewers.

Henry Paff.

Superintendent of Western District Sewers.
John W. Lee.

Superintendent of Canton Dump, Foley's Wharf.
Eben F. Perkins.

Assistant Superintendent of Canton Dump, Foley's Wharf.
M. J. Corcoran.

Superintendent of Spring Garden Dump, Winan's Wharf.
A. H. Volz.

Assistant Superintendent of Spring Garden Dump, Winan's Wharf.
Patrick Kenny.

Commissioner of Street Cleaning.

James E. Carr.

SUPERINTENDENTS OF STREETS.

Bernard V. Kelly, *First District.*
Joseph P. Scott, *Second* "
Michael Fadgen, *Third* "
James F. Busey, *Fourth* "
John T. Lee, *Fifth* "
John Meagher, *Sixth* "

Harbor Board.

His Honor, Wm. Pinkney Whyte, *Chairman.*

Wm. H. Skinner, Jno. W. McCoy,
Alexander Jones, Robert T. Baldwin,
James S. Woodside, James Bond.

N. H. Hutton, *Engineer.*
Jas. H. Irvin, Jr., *Clerk.*

Engineer for the Improvement of Jones' Falls.

Chas. H. Latrobe.

Superintendent of City Hall.

James Donnelly.

Day Watchmen at City Hall.

James Merritt,
W. S. Winder,
Jno. G. Batzer.

Night Watchmen at City Hall.

John Schlereth.
John Rooney.

Engineers at City Hall.

Geo. W. Vandaniker.
Curtis B. Simonds.

Firemen at the City Hall.

Thomas Kernan,
Geo. W. Fay,
Edward Weber,
William F. Harig.

Park Commission.

His Honor, Wm. Pinkney Whyte, *Chairman.*

Thomas Swann, John H. B. Latrobe,
William E. Hooper, George S. Brown,
Charles H. Mercer.
D. Rayhice, *Clerk.*

Water Department.

Commissioners.

His Honor, Wm. Pinkney Whyte, *President.*

John F. Hunter,
George P. Thomas,
Wm. A. Fisher,
George U. Porter,
Thomas Bond,
N. Rufus Gill.

Registrar's Department.

Edward Shriver, *Water Registrar.*
James A. Marrian, *General Book-keeper.*
James S. Etchberger, *Cashier.*
J. J. C. Scully, *Clerk of Errors.*
E. A. Hogg, *Ledger Clerk.*
E. J. Edwards, "
Wm. F. Hynson, "
John Gibson, "
Thomas H. Blick, *Clerk of Delinquents.*
Benjamin Price, *Inspector and Bill Distributor.*
George A. Coleman, " "
John D. Alcock, " "
S. L. Auerbach, " "
W. A. Maloney, " "
D. G. Carlisle, " "
George W. Emmerich, *Hydrant Inspector.*

Engineer's Department.

Robert K. Martin, *Chief Engineer.*
James Curran, *Superintendent of City Works.*
Wm. L. Kenly, " *County* "
Richard D. Murphy, *Clerk.*

Baltimore City Jail.

BOARD OF VISITORS.

Otis Keilholtz, *President.*

Hon. Wm. Pinkney Whyte, *Ex Officio.*

Jacob France, Sr., Samuel J. Harman,
Thomas G. Hayes, Harry E. Reinhard,
J. H. Sirich, *Secretary.*

J. F. Morrison, *Warden.*
Dr. D. P. Hoffman, *Physician.*
Wm. H. H. Turner, *Clerk.*

Deputy Wardens.

Henry Cruse, Wm. J. McCleary,
Wm. Howard, Charles F. Edwards,
Wm. H. Cross, John T. Barber,
Joseph J. Peters, J. F. Rials,
Thomas M. Kenney, Wm. H. Jeffers,
Wm. H. Tibbels Richard T. Carter,
James J. Flannery, John Mahon,
Peter P. Kestler, John F. Potter,
Cornelius McLaughlin.

James B. Sanner, *Engineer.*
Charles W. Muhly, *Baker.*
Loudon Feast, *Gardner.*
Mrs. Carrie Doll, *Matron.*
Mrs. Hannah Whittemore, *Assistant Matron.*
A. J. Connelly, *Hostler.*

Commissioners of Public Schools.

John T. Morris, *President.*

First Ward.....Francis J. Ruth.
Second Ward.....George H. Budeke.
Third Ward.....William C. Atkinson.
Fourth Ward.....Timothy Maloney.
Fifth Ward.....William M. Ives.
Sixth Ward.....John F. Hancock.
Seventh Ward.....Robert H. Sinclair.
Eighth Ward.....James Boyle.
Ninth Ward.....Joshua Plaskitt.
Tenth Ward.....John T. Morris.
Eleventh Ward.....John P. Poe.
Twelfth Ward.....Benjamin Price.
Thirteenth Ward.....Dr. J. W. Germon.
Fourteenth Ward.....F. G. Connelly, M. D.
Fifteenth Ward.....J. Wm. Kines.
Sixteenth Ward.....Jacob Schenkel.
Seventeenth Ward.....H. B. Roemer.
Eighteenth Ward.....John N. Conway.
Nineteenth Ward.....Joseph H. Gale.
Twentieth Ward.....Calvin J. King.

Henry E. Shepherd, *Superintendent.*
Henry A. Wise, *Ass't* "
Henry M. Cowles, *Secretary.*
Jacob Boston, *Librarian.*
Albert Marshall, *Messenger.*

Trustees of McDonogh Educational Fund and Institute.

Samuel H. Tagart, *President.*

Wm. A. Stewart,
H. Clay Dallam, *Sect'y and Agent,*
Robert T. Baldwin,
David L. Bartlett,
German H. Hunt,
Chas. H. Mercer.

Trustees of Almshouse.

Chas. P. Montague, *President.*

Henry R. McNally, Albert Sigmund,
Elias T. Cruse, Andrew A. Rose, *Secretary.*

Wm. Henry Hiss, *Purveyor.*
Chas. Carroll, *Superintendent.*
D. J. Carr, *Clerk.*
James F. Bayly, *Storekeeper.*
Wm. Kaiser, *Engineer.*
Wm. C. Kernan, *Assistant Engineer.*
Andrew J. Barranger, *Gardener.*
J. Wesley Sapp, *Messenger.*
Wilson Eldridge, *Baker.*
Mrs. Susan McCahan, *Matron.*
Mrs. Jane Scott, *Ass't* "
Dr. George B. Reynolds,
Dr. A. P. Clark,
Dr. J. E. Atkinson, } *Visiting Physicians.*
Dr. Jos. T. Bartlett, *Apothecary.*

Agent of Baltimore City for the Deaf and Dumb.

Wm. R. Barry.

Directors on behalf of the City of the Maryland Industrial Schools for Girls.

G. S. Griffith, John Q. A. Herring,
G. Harlan Williams, John C. Bridges,
George R. Skillman.

Managers on part of City of St. Mary's Industrial School.

Dr. Jno. Morris, C. J. Bonaparte, R. W. L. Rasin.

Managers of House of Refuge on the part of the City.

William Reynolds,
George H. Stewart,
Thos. S. Baer,
James Pentland,
Rev. Jno. G. Morris,
Charles L. Oudesluys,
Asa H. Smith,
Dr. F. Hassencamp,
Maurice Laupheimer,
Wm. S. Rayner.

Managers on the part of the City for the House of Reformation and Instruction for Colored Children.

Charles T. Boehm, George J. Zimmerman.

Directors on the part of the City in the Baltimore and Ohio Railroad Company.

John K. Ober,
John H. Holthaus,
Henry McShane,
Geo. R. Berry,
Michael Coakley,
John Gill,
Thomas A. Whelan.

Directors on the part of the City in the Union Railroad Company.

William G. Harrison, L. W. Gunther.

Directors on the part of the City in the Western Maryland Railroad Company.

J. M. Hood, *President.*

Alex. Rieman, *Vice-President,*
Christian Devries,
E. G. Hipsley,
Daniel J. Foley,
Wm. H. Graham,
Jno. I. Middleton,
Nicholas G. Penniman,
Samuel H. Adams.

Commission to examine and report upon the present system of Assessments and Collecting Taxes in Baltimore.

J. Hall Pleasants,
John S. Hogg,
Francis T. King,
J. Saurin Norris,
James H. Barney,
John I. Middleton.

J. D. Ferguson, *Secretary.*

Directors on the part of the City in the Valley Railroad Company.

Henry Duvall, Decatur H. Miller, Osmun Latrobe.

Harbor Masters.

First District.....Jos. Cromwell.
Second " .....William Knorr.
Third " .....Burgwyn Maitland.
Fourth " .....John F. Carter.
Fifth " .....Geo. A. Freburger.
Sixth " .....Charles Durm.

Inspectors of Weights and Measures.

Northwestern District.....Christian Leutbacher.
Northeastern District.....Wm. Henry.
Southwestern District.. .....Charles E. Stewart.
Southeastern District.....Francis Herr.

Inspector of Long and Dry Measures.

John B. Garvey.

Inspector of Coal Oil and Illuminating Gas.

Prof. Wm. E. A. Aikin.

General Superintendent of Lamps and Inspector and Sealer of Gas Meters.

Frederick W. King.

Inspector of Charcoal.

Jacob Groh.

Distributors of Fund for the Relief of the Widows of those who fell in Defence of the City in 1814.

Wm. C. Atkinson, Findley H. Burns, George Small.

Superintendents of Chimneys.

First District. .....John C. Smyth.
Second " .....John B. Rudolph.
Third " .....George W. Trumbo.
Fourth " .....George W. Ruckle.
Fifth " .....Jas. McGarvey.
Sixth " .....Charles Price.
Seventh " .....John C. Dietz.
Eighth " .....George M. Toner.
Ninth " .....George W. Lepson.
Tenth " .....Magnus Mueller.
Eleventh " ..... George Buckheimer.

Superintendent of Court House, Record Office and Grounds.

William H. Clifford.

Watchman at Court House.

Daniel Barr.

Janitor of Old Masonic Hall Building.

Patrick Reilly.

Watchman at Old Masonic Hall Building.

William Larkin.

Janitor of the Orphans' Court.

James Stanton.

Keeper of Drawbridge.

George Konig.

Keeper of Washington Monument.

James D. MacKenzie.

Keeper of Harman's Bridge.

Joseph Vandaniker.

Keeper of North, Calvert and St. Paul Street Bridges.

James H. Johnson.

Keeper of Dog Pound.

Thomas S. Hamlin.

Clerk of Centre Market.

Daniel Murray.
Thomas E. Burke, *Assistant Clerk.*

Clerk of Lexington Market.

William H. Pope.
Franklin Brown, *Assistant Clerk.*

Clerk of Fells Point Market.
Charles Eagleston.

Clerk of Belair Market.
Joseph H. Wright.

Clerk of Hollins Market.
John O'Keefe.

Clerk of Hanover Market.
George A. Albaugh.

Clerk of Richmond Market.
Andrew J. Norris.

Clerk of Lafayette Market.
Thomas Briddell.

Clerk of Cross Street Market.
James Graham.

Keeper of Hall over Broadway Market.
Michael P. German.

Keeper of Market under Maryland Institute.

John Monaghan.

Commissioners of Union Square.

Andrew J. Fairbank, Wm. N. Allen, Geo. V. Helfrich.

Commissioners of Franklin Square.

J. W. Bowers, George W. Rayner, Robert M. Sutton.

Commissioners of Lafayette Square.

Augustus C. Pracht, Jas. E. Tate, John Q. A. Herring.

Commissioners of Eutaw Place Squares—1st Division.

L. W. Gunther, Fred'k Raine, Wm. H. Blackford,
Isaac S. George, A. C. Trippe.

Commissioners of Eutaw Place Squares—2d Division.

T. Edward Hambleton, M. Gillet Gill,
George J. Popplein.

Commissioner of Triangle formed by North avenue, Oliver and McMechen streets.

George P. Frick.

Commissioners of Mount Vernon Squares.

Thomas M. Lanahan, Robert Garrett, Henry C. Smith.

Commissioners of Madison Square.

George Kilchenstine, B. F. Sutherland.

Commissioners of Jackson Square.

Joseph Brenner, George A. Blake, Chas. P. Powel.

Commissioners of Harlem Park.

Jas. R. Brewer, Edward P. Barrington, Jas. R. Marley.

Commissioners of Eastern City Square.

Jno. W. Cruett, Jas. J. Cavanaugh, Chas. Treusch.

Commissioners of Broadway Squares—6th Ward.

L. C. Roehle, A. Y. Dolfield, Dr. C. A. Steck.

Commissioners of Broadway Squares—7th Ward.

J. B. Weaver, E. P. Vincente, Thomas W. Morse.

Commissioners of Perkins Spring Square.

Joseph Harris, J. Frank Wilhelm William Gonder.

Commissioners of Park Place.

Frank Frick, Garrett B. Davis, Basil Wagner.

Commissioners of Taney Place.

Frank X. Ward, R. Snowden Andrews,
Walter Dulaney.

Commissioners of Ashland Square.

James Sapp, Dr. J. B. Sutherland, Richard S. Bridge.

Commissioner of the Circle at Baker street and Fulton avenue.

John T. Ford.

Commissioners of Johnston Square.

Patrick Cassidy, Patrick Carmody, Andrew L. Black.

Keeper of Calvert Street Spring.

Bernard Brady.

Keeper of Madison Square.

Alexander K. Stevenson.

Keeper of Union Square.

R. G. Welsh.

Keeper of Harlem Park.
William Sheehan.

Keeper of Lafayette Square.
Henry Manion.

Keeper of Franklin Square.
Ezekiel Gray, Sr.

Keeper of Eastern Fountain.
Francis Brashears.

Keeper of Broadway Squares—6th Ward.
Frederick Williams.

Keeper of Broadway Squares—7th Ward.
James K. P. Fredericks.

Keeper of Perkins' Spring Square.
Peter Doyle.

Keeper of Ashland Square.
John C. Gareis.

Keeper of Jackson Square.

John Remmel.

Keeper of Taney Place.

Aug. Bechtold.

Ward Managers of the Poor.

First Ward.....Moses Fleishman.
Second Ward.....John Cloke.
Third Ward.....Richard C. Kemp.
Fourth Ward.....John Quinn.
Fifth Ward.....Lewis Strasburger.
Sixth Ward.....Matthew McClintock.
Seventh Ward.....John Aull.
Eighth Ward.....Peter Kennedy.
Ninth Ward.....Sol. Goodman.
Tenth Ward.....Edward Pels.
Eleventh Ward.....Chas. F. Taylor.
Twelfth Ward.....Isaac S. George.
Thirteenth Ward.....Levi Weinberger.
Fourteenth Ward.....Wm. H. Cox.
Fifteenth Ward.....Joseph J. Harig.
Sixteenth Ward.....Peter Hines.
Seventeenth Ward.....Henry Dickens.
Eighteenth Ward.....T. P. Perine.
Nineteenth Ward.....George A. Smith.
Twentieth Ward.....John B. Thomas, Jr.

Superintendents of Lamplighters.

Lewis T. Wilbourn, Jacob H. Schwartz,
John McNeill, Joshua E. Stinchcomb,
Andrew J. Berger.

Lamplighters.

Mathew Rudolph,
Thomas Conley,
Michael Barnes,
James Beatty,
Richard Brown,
John Spellman,
Robert Marr,
Mathew Nooney,
James Kidd,
John Mahrer,
Francis Eagen,
Benjamin Crisp,
Joseph Johnson,
M. J. McDonough,
Michael Canton,
Edward Welch,
William V. McCann,
Thomas Bentley,
Bernard McGowan,
John McGlannon,
J. E. Forestel,
Frederick Lastner,
Michael Morton,
John Jeffers,
S. M. West,
John Raunft,
John Duane,
Edward Raine,
F. A. Shanfelter,
Nathan Wright,
John Musch,
John Benson,
Michael Cassiday,
John G. Roth,
John Angelmeyer,
Joseph Brown,
Philip Kimmel,
Joseph McAvoy,
William J. Egan,
John Parrish,
Charles Nathan,
John Conroy,
James Kerns,
William F. Farley,
Emanuel Reis,
John McNally,
E. D. Dunphy,
John Corbitt,
W. S. Card,
John Knox,
Joseph Byrne,
Dennis McSweeney,
John Gaynor,
Moses Lappman,
Martin Sommers,
William Zell,
Joseph Carter,
John Fox,
Andrew Kautz,
William Laughlin,
John Sutherland,
J. G. Moore,

H. C. Downs,
William Holden,
P. S. Aubrey,
John Kelly,
John H. Colton,
Michael Sloan,
John Miller,
Francis Philbin,
Thomas Rooney,
Patrick Curtin,
J. H. Hellings,
John W. Gibbons,
James Flynn,
William Murray,
Rupert Kohlerman,
James Burley,
Henry Bauerfind,
William Armstrong,
J. Wesley Harper,
Joseph Countess,
Michael McCarthy,
William Hosbaugh,
Patrick Kratz,
John Schweitzer,
John McDermott,
R. H. Wells,
Michael Ragan,
George Molter,
G. M. Frank,
Michael Wagner,
Peter Thomas,
J. F. Konig,
Hugh Potter,
Henry Burns,
Jacob Schedel,
Charles Hall,
John Haas,
William Montague,
Benjamin Tall,
Marke McBride,
Patrick Collins,
James T. Yewell.

Constables.

First Ward.....H. L. Diering.
" " .....
Second " .....
" " .....
Third " .....
" " .....
Fourth " .....Patrick Bradley.
" " .....

Fifth	Ward	John O. Greer.
"	"	
Sixth	"	Wm. W. Rollins.
"	"	John M. Darby.
Seventh	"	Wm. F. Eberwein.
"	"	David M. Pollard.
Eighth	"	David Dobler.
"	"	Daniel Taylor.
Ninth	"	John K. Stein.
"	"	John F. Cook.
Tenth	"	Wm. H. McCabe.
"	"	Lewis H. Robinson.
Eleventh	"	Charles A. Davis.
"	"	John R. Dove.
Twelfth	"	Stephen A. Morse.
"	"	
Thirteenth	"	Andrew F. Carrick.
"	"	
Fourteenth	"	Henry Bernheimer.
"	"	James D. Kearney.
Fifteenth	"	Thomas H. Shanks.
"	"	W. B. Lyons.
Sixteenth	"	Josiah S. Showacre.
"	"	
Seventeenth	"	D. P. West.
"	"	
Eighteenth	"	Edward C. Lilly.
"	"	Wm. F. Bragg.
Nineteenth	"	Wm. P. Smith.
"	"	Richard O. Jessop.
Twentieth	"	Andrew J. Collars.
"	"	

Officers and Members of the Fire Department.

Fire Commissioners.

Sam'l W. Regester, *President.*

Hon. Wm. Pinkney Whyte, *Ex Officio,*
Thomas W. Campbell,
Charles B. Slingluff,
Sam'l Hannah,
J. F. Morrison,
B. E. Smith.

Secretary and Clerk.

George A. Campbell.

Chief Engineer.

John M. Hennick.

Assistant Engineers.

Geo. W. Ellender, *Eastern District.*
Thomas F. Murphy, *Western District.*

Fire Inspector.

Charles T. Holloway.

Superintedent of Police and Fire Alarm Telegragh.

Charles J. McAleese.

Telegraph Operators.

Frank J. Connor,
Alexander Crummer,
Frank L. McAleese,
Harry P. Lucas.

Substitute Operator.

J. T. Grasty.

Lineman.

Robert Kain.

Assisiant Lineman and Batteryman.

Thomas F. Byrne.

No. 1 *Engine.*

Jacob H. Hayward. ..... *Foreman.*
J. W. Yeaton..... *Engineman.*
Charles E. Freeburger..... *Ass't Engineman.*
Lewis J. Fresch..... *Hostler.*
William White, ... *Fireman.*
John H. Morgan..... "
E. R. Addison..... "
Charles Minton..... "
Robert Close ..... "
M. J. Halloran. ..... "
George D. Wernix ..... "
William J. O'Brien..... "

No. 2 *Engine.*

Jacob Hindes..... *Foreman.*
Thomas Wheatley..... *Engineman.*
Samuel Stansbury ..... *Ass't Engineman.*
John Reed..... *Hostler.*
T. Rodenhi..... *Fireman.*
James Humes ..... "
Charles Romoser..... "
C. H. Hamel..... "
Charles Causey..... "
Charles Klessel ..... "
John Leddon..... "
Charles Grund..... "

No. 3 Engine.

R. A. Lindsey.....*Foreman.*
T. Humphreys.....*Engineman.*
George Morris.....*Ass't Engineman.*
John Pierce.....*Hostler.*
W. F. Pasterfield.....*Fireman.*
E. A. Peirson..... "
J. B. Lehman..... "
J. A. Lindsay..... "
Miles Whalen..... "
Matt. Armendt..... "
T. B. Strahan..... "
D. A. Orem..... "

No. 4 Engine.

George W. Horton.....*Foreman.*
F. Conway.....*Engineman.*
C. Kuhan.....*Ass't Engineman.*
H. Pirie.....*Hostler.*
George W. Bentz.....*Fireman.*
James Allen..... "
Joseph Daly..... "
J. Oscar Healy..... "
E. Shultz..... "
W. A. Merchant..... "
William Conaway..... "
F. Bradley..... "

No. 5 Engine.

William G. Miller.....*Foreman.*
F. L. Nelson.....*Engineman.*
J. Linderman.....*Ass't Engineman.*
Benjamin Price.....*Hostler.*
James Peacock.....*Fireman.*
Henry Murphy..... "
Julius O. Krauch..... "
Charles P. Nelson..... "
Edward Bailey..... "
William P. Disney..... "
James Rielly..... "
William M. Burns..... "

No. 6 Engine.

W. W. Watson.....*Foreman.*
M. Mulligan.....*Engineman.*
R. F. Boyle.....*Ass't Engineman.*
J. Wersing.....*Hostler.*
T. B. Rial.....*Fireman.*
D. H. Macauley..... "
W. West..... "
L. Blake..... "
B. Shaw..... "
J. H. Cruse..... "
W. J. Rafferty..... "
J. Gallagher..... "

No. 7 Engine.

George H. Houck.....*Foreman.*
J. J. McCoy.....*Engineman.*
Jacob Corns.....*Ass't Engineman.*
J. Friedhoffer.....*Hostler.*
J. Gildea.....*Fireman.*
J. Lavender. ..... "
J. F. Cook..... "
William Morrow..... "
John Hoffman..... "
John J. Houck..... "
John Sisson ..... "
H. Walker. .. .. "

No. 8 Engine.

John J. Flynn. .....*Foreman.*
M. F. Welsh.....*Engineman.*
John McKee.....*Ass't Engineman.*
William J. Stewart..... ... *Hostler.*
A. J. Walter.. ....*Fireman.*
O. D. Burgess . . .. "
G. B. Chapman..... "
F. Johnston... ..... "
Howard Scott..... "
Samuel Marker..... "
John Gaffney. .. . . "
George W. Krager ..... "

No. 9 Engine.

F. D. Kerr.....*Foreman.*
D. Rogers.....*Engineman.*
Wm. Stanton.....*Ass't Engineman.*
John Harney.....*Hostler.*
J. McDevitt.....*Fireman.*
G. Mineburg..... "
S. Uhlfelder..... "
Charles Frey..... "
Charles Neilson..... "
Lemuel Piercy..... "
Wm. Burrier..... "
Wm. Baker..... "

No. 10 Engine.

Wm. R. Ward.....*Foreman.*
Wm. Thompson.....*Engineman.*
John W. Walsh.....*Ass't Engineman.*
Henry Dunn.....*Hostler.*
Alfred Squires.....*Fireman.*
John Keily..... "
Jesse Keilholtz..... "
John C. Brady..... "
John Lynch..... "
John O. Leary..... "
Charles Meyer..... "
B. F. Seipp..... "

No. 11 *Engine.*

Andrew Perry.....*Foreman.*
John Calder.....*Engineman.*
P. F. Moriarity.....*Ass't Engineman.*
William H. Moore.....*Hostler.*
R. V. Pittinger.....*Fireman.*
P. F. Bradly..... "
Albert Gier..... "
H. R. Seippell..... "
James R. Baldwin..... "
J. D. Daniels..... "
James A. Kelly..... "
Ebenezer Smith..... "

No. 12 *Engine.*

L. J. Broadwater.....*Foreman.*
Michael Lycett.....*Engineman.*
T. S. Atkinson.....*Ass't Engineman.*
George D. Taylor.....*Hostler.*
J. W. Moon.....*Fireman.*
D. McIntire..... "
Henry Seebach..... "
Wm. Schultey..... "
B. T. Wirts..... "
Ed. C. Klessel..... "
P. McLaughlin..... "
B. Carter..... "

No. 13 *Engine.*

James Kelly.....*Foreman.*
John H. Deal.....*Engineman.*
John A. Bannon.....*Ass't Engineman.*
Edward McGeehan.....*Hostler.*
E. C. Keyser.....*Fireman.*
Wm. F. Clabaugh..... "
George Bowers..... "
James LeDoyne..... "
Philip Bowen..... "
Lawrence Pistel..... "
Louis C. Campbell..... "
Chas. C. Clabaugh..... "

No. 1 *Hook and Ladder.*

Henry W. Mears.....*Foreman.*
J. V. Daugherty.....*Tillerman.*
J. E. Pattison.....*Hostler.*
John B. Keene.....*Ladderman.*
John P. Ward..... "
John R. Farr..... "
James Disney..... "
George W. Haskell..... "
John Battee..... "
William M. Dunn..... "
Fred. Oelman..... "
James L. Southcomb..... "

No. 2 Hook and Ladder.

Fred. A. Marston.....*Foreman.*
John J. Gill.....*Tillerman.*
Thomas Montgomery.....*Hostler.*
Thomas Wagner.....*Ladderman.*
J. F. Schafer..... "
Lewis Pistol..... "
Charles Rolf..... "
Edward W. Windle..... "
Fred. Branan..... "
William H. Quigley..... "
Richard F. Rous..... "
Charles H. Baker..... "

No. 3 Hook and Ladder.

George W. Foxwell.....*Foreman.*
John McClellan.....*Tillerman.*
Wm. E. Vanrossum.....*Hostler.*
Richard Henrix.....*Ladderman.*
George Bosse..... "
Louis Locks..... "
Jesse Vickers..... "
John Sauer..... "
Andrew German..... "
John N. Downs..... "
Charles Schoepperlein..... "
William Patterson..... "
Henry Heiderick..... "

No. 4 Hook and Ladder.

Paul Hoffman.....*Foreman.*
John W. Blake.....*Tillerman.*
James Gill.....*Houseman.*
George Thorp.....*Hostler.*
Jacob Green.....*Ladderman.*
George W. Smith..... "
C. E. Eichelberger..... "
Harry C. Loane..... "
Louis P. Scheive..... "
Andrew Bilson..... "
William La Shorn..... "
William Blondell..... "
John C. Turner..... "

Judges and Clerks of Courts.

Superior Court.

Hon. Robert Gilmor, Jr., *Judge.*
F. A. Prevost, *Clerk.*

Court of Common Pleas.

Hon. Geo. Wm. Brown, *Judge.*
I. Freeman Rasin, *Clerk.*

Circuit Court.

Hon. Geo. W. Dobbin, *Judge.*
James R. Brewer, *Clerk.*

Criminal Court.

Hon. Campbell Whyte Pinkney, *Judge.*
John S. Bullock, *Clerk.*

City Court.

Hon. Henry F. Garey, *Judge.*
Wm. F. McKewen, *Clerk.*

COMMITTEES

OF THE

City Council of Baltimore,

FOR THE YEAR 1882.

JOINT STANDING COMMITTEES.

WAYS AND MEANS.

First Branch.	*Second Branch.*
Wilmer, Skipwith	Wright, D. G.
Ireland, D. C.	Fledderman, H. G.
Broderick, William E.	Mooney, M. E.

BRIDGES.

First Branch.	*Second Branch.*
Scarff, Charles R.	Rigney, P.
Broderick, William E.	Newbold, James F.
Burke, Edward A.	Kelly, Wm. J.

WATER.

First Branch.	*Second Branch.*
Moran, Jr., Chas. S.	Mooney, M. E.
Terry, Thomas W.	Johnston, Robert
Scarff, Charles R.	Wentz, John B.

CLAIMS.

First Branch.	*Second Branch.*
Denny, J. W.	Dulany, John M.
Mahon, J. J.	Newbold, James F.
Gephart, W. Starr	Wright, D. G.

HIGHWAYS.

First Branch.	*Second Branch.*
Ireland, D. C.	Fledderman, H. G.
Wilmer, Skipwith	Kelly, William J.
Mahon, J. J.	Johnston, Robert

HARBOR.

First Branch.	*Second Branch.*
Weyler, J. F.	Kelly, William J.
Hamilton, Thomas H.	Mooney, M. E.
Reitz, Lewis	Rigney, P.

HEALTH.

First Branch.	*Second Branch.*
Linthicum, J. G.	Wright, D. G.
Hamilton, Thomas H.	Dulany, J. M.
Matthews, John L.	Fledderman, H. G.

CITY PROPERTY.

First Branch.	*Second Branch.*
Tegges, Nicholas	Rigney, P.
Moran, Jr., Chas. S.	Wentz, John B.
Weyler, J. F.	Newbold, James F.

MARKETS.

First Branch.	*Second Branch.*
Hamilton, Thomas H.	Newbold, James F.
Moran, Jr., Charles S.	Rigney, P.
Scarff, Charles R.	Wright, D. G.

EDUCATION.

First Branch.	*Second Branch.*
Denny, J. W.	Wentz, John B.
Wilmer, Skipwith	Dulany, John M.
Graham, Thomas H.	Wright, D. G.

McDONOGH BEQUEST.

First Branch.	*Second Branch.*
Matthews, John L.	Dulany, John M.
Burke, Edward A.	Wright, D. G.
Penn, Richard J.	Wentz, John B.

HOUSE OF REFUGE.

First Branch.	*Second Branch.*
Penn, Richard J.	Newbold James F.
Terry, Thomas W.	Wentz, John B.
Matthews, John L.	Kelly, Wm. J.

INTERNAL IMPROVEMENTS.

First Branch.	*Second Branch.*
Graham, Thomas H.	Kelly, Wm. J.
Campbell, Jos. V.	Mooney, M. E.
Reitz, Lewis	Johnston, Robert

FIRE DEPARTMENT.

First Branch.	*Second Branch.*
Gephart, W. Starr	Mooney, M. E.
Linthicum, J. G.	Dulany, John M.
Penn, Richard J.	Fledderman, H. G.

PARKS.

First Branch.	*Second Branch.*
Reitz, Lewis	Johnston, Robert
Linthicum, J. G.	Kelly, William J.
Tegges, Nicholas	Newbold, James F.

POLICE AND JAIL.

First Branch.	*Second Branch.*
Broderick, William E.	Fledderman, H. G.
Ireland, D. C.	Johnston, Robert
Mahon, John J.	Dulany, John M.

CITY PASSENGER RAILWAYS.

First Branch.	*Second Branch.*
Campbell, Joseph V.	Mooney, M. E.
Graham, Thomas H.	Dulany, J. M.
Weyler, J. F.	Rigney, P.

ALMSHOUSE.

First Branch.	*Second Branch.*
Tegges, Nicholas	Johnston, Robert
Penn, Richard J.	Rigney, P.
Terry, Thomas W.	Newbold, James F.

COMMERCE AND MANUFACTURES.

First Branch.	*Second Branch.*
Terry, Thomas W.	Newbold, James F.
Campbell, Jos. V.	Kelly, Wm. J.
Burke, Edward A.	Wentz, John B.

JONES' FALLS.

First Branch.	*Second Branch.*
Burke, Edward A.	Kelly, William J.
Moran, Jr., Chas. S.	Johnston, Robert
Broderick, William E.	Rigney, P.

CITY PRINTING.

First Branch.	*Second Branch.*
Scarff, Charles R.	Newbold, James F.
Mahon, John J.	Wright, D. G.
Gephart, W. Starr	Fledderman, H. G.

ENROLLMENT.

First Branch.	*Second Branch.*
Mahon, John J.	Wentz, John B.
Gephart, W. Starr	Wright, D. G.

Joint Special Committee for the Introduction of the Waters of the Gunpowder River into the City.

First Branch.	*Second Branch.*
Tegges, Nicholas	Rigney, P.
Scarff, Charles R.	Kelly, Wm. J.
Terry, Thomas W.	Wright, D. G.
Burke, Edward A.	Johnston, Robert
Reitz, Lewis	Newbold, James F.

JOINT SELECT COMMITTEES.

REGISTER'S ACCOUNTS.

First Branch.	*Second Branch.*
Wilmer, Skipwith	Wentz, J. B.
Campbell, Jos. V.	Mooney, M. E.
Denny, J. W.	Fledderman, H. G.

COMMISSIONERS OF PUBLIC SCHOOL ACCOUNTS.

First Branch.	*Second Branch.*
Denny, J. W.	Dulany, John M.
Graham, Thomas H.	Wentz, John B.
Matthews, John L.	Newbold, James F.

COMMISSIONERS OF FINANCE ACCOUNTS.

First Branch.	*Second Branch.*
Broderick, Wm. E.	Wright, D. G.
Gephart, W. Starr.	Fledderman, H. G.
Linthicum, J. G.	Kelly, Wm. J.

COMPTROLLER'S ACCOUNTS.

First Branch.	*Second Branch.*
Ireland, D. C.	Fledderman, H. G.
Penn, Richard J.	Rigney, P.
Reitz, Lewis	Newbold, James F.

CITY COMMISSIONER'S AND HARBOR COMMISSION ACCOUNTS.

First Branch.	*Second Branch.*
Weyler, J. F.	Kelly, William J.
Mahon, J. J.	Johnston, Robert
Burke, Edward A.	Dulany, John M.

WATER COMMISSIONERS' ACCOUNTS.

First Branch.	*Second Branch.*
Moran, Jr., Chas. S.	Newbold, James F.
Terry, Thomas W.	Rigney, P.
Scarff, Charles R.	Wright, D. G.

HEALTH COMMISSIONER'S ACCOUNTS.

First Branch.	*Second Branch.*
Linthicum, J. G.	Johnston, Robert
Hamilton, Thomas H.	Dulany, John M.
Mahon, J. J.	Wentz, John B.

COMMISSIONERS' FIRE DEPARTMENT ACCOUNTS.

First Branch.	*Second Branch.*
Gephart, W. Starr	Mooney, M. E.
Penn, Richard J.	Rigney, P.
Tegges, Nicholas	Dulany, John M.

ANNUAL REPORTS

OF THE

REGISTER OF THE CITY

AND OF THE

COMMISSIONERS OF FINANCE

TO THE

Members of the First and Second Branches of the City Council,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881.

REPORT OF

JOHN A. ROBB,

REGISTER OF THE CITY.

REGISTER'S REPORT.

OFFICE OF THE REGISTER OF THE CITY,

Baltimore, January 3, 1882.

To the Honorable the Members of the First and Second Branches of the City Council:

GENTLEMEN:

Section 22 of article 11 of the Baltimore City Code requiring it, the Register herewith presents "his account of all moneys received and expended by him during the past year;" a "statement of the estimated receipts and payments required for the coming year;" also, tables showing the funded and guaranteed debt of the city as of December 31, 1881; the productive and interest-bearing securities of the city; the unproductive securities; the condition of the sinking funds under his charge for the redemption of the five million loan to the Baltimore and Ohio Railroad Company, and for the redemption of the loan to the Western Maryland Railroad Company, and bonds of the same, guaranteed by the city of Baltimore; and also, the monthly returns of the "keepers of the standards of weights and measures," the latter being required by Ordinance No. 9 of 1881.

The total of receipts for the year amount to	$6,896,542 95
To which add cash balance from the last year	322,517 62
And the total amount to be accounted for will be	$7,219,060 57
The total of disbursements, per table E, were	6,875,107 31
Leaving a cash balance in bank of	$ 343,953 26

The aggregate of monthly receipts and disbursements is represented in table marked E, and a detailed statement in table marked D, both herewith; but for convenience of reference, and to show at almost a glance the real cost of the City Government paid for by receipts from taxes and income from investments, the items which are not really expenses and revenue have been eliminated from the gross disbursements and receipts, and are as follow:

RECEIPTS—INCOME PROPER.

From City Collector, levy of 1881	$2,533,152 48	
" City Collector, levies of 1880 and previous years	1,170,204 39	
		$3,703,356 87
" public schools' tuition fees and J. F. Plummer		47,784 75
" markets		50,373 72
Amount carried forward		$3,801,515 34

Amount brought forward	$3,801,515	34
From wharfage	24,127	19
" general licenses	45,899	21
" auction duties	10,198	31
" Baltimore and Ohio Railroad Company, dividend on stock	325,000	00
" aggregate of sundry regular sources	32,663	54
Actual income	$4,239,403	59

RECEIPTS—NOT INCOME PROPER.

From Baltimore and Ohio Railroad Company, to pay interest on five million loan	$300,000	00
" Water Board	739,237	00
" State of Maryland for public schools	150,372	91
" City Passenger Railway Companies for Park Sinking Fund	14,289	49
" City Passenger Railway Companies from parks for Park Board	93,700	42
" Jones' Falls improvement	621	00
" sale of Jones' Falls 5 Per Cent. Loan	42,420	00
" sale of loan for improvement of Harford run	257,665	00
" sale of Paving Loan, 1920	45,000	00
" tax sales	10,434	40
" City Passenger Railway Companies for interest on Park Stock	33,333	96
" Water Board for interest on Water Loans	452,630	00
Amount carried forward	$6,379,107	77

Amount brought forward	$6,379,107 77
From intestate estates for schools	862 39
" temporary loans	345,000 00
" conscience fund	2,514 94
" sales of city property, &c	3,483 63
" opening and closing streets	35,743 86
" paving streets and alleys	129,830 35
Total receipts	$6,896,542 95

DISBURSEMENTS—EXPENSES OF THE CITY.

Interest on the funded debt	$1,056,777 83
Expenses of Courts, jail, registration of voters, &c	235,274 32
Public schools, less amount received from State of Maryland	472,616 94
" for new buildings	19,346 71
City poor, including new building for insane	209,129 58
Sinking funds	435 29
Harbor Commission	85,994 88
Police Department	584,846 50
Health Department	268,464 82
Fire Department	198,305 06
Inspector of Buildings	80,037 10
City Commissioner	194,123 33
Inspector and Sealer of Gas Meters and Superintendent of Lamps	199,064 64
City Council expenses	53,283 02
Salaries	67,020 00
Amount carried forward	$3,724,720 02

Amount brought forward	$3,724,720 02
Special appropriations	12,687 34
State tax on city loans	10,318 92
Discount on taxes and interest on temporary loans	127,226 03
Lamplighters' salaries	43,680 00
Salaries and expenses of City Collector's office	44,197 07
General expenditures, being the aggregate of sundry items	143,618 46
Total actual expenses of City Government	$4,106,447 84

DISBURSEMENTS—NOT EXPENSES PROPER.

Interest on five million loan for Baltimore and Ohio Railroad Company	$300,000 00
Interest on water loans for Water Board	452,630 00
Interest on park loan for Park Board	33,333 96
Public School tax from State of Maryland	150,372 91
Park Sinking Fund from Passenger Railway Companies	14,289 49
Park Board Fund from Passenger Railway Companies	100,431 07
Improvement of Jones' Falls	229,384 99
" " Harford Run	150,787 50
Repaving streets from paving loan 1920	34,520 46
Tax sales	7,895 33
Water Board	730,897 54
Permanent Water Supply	105,741 98
Amount carried forward	$6,416,733 07

Amount brought forward	$6,416,733 07
Temporary loans	260,000 00
Sarah Ann Fowler's estate	49 95
Sale of city property	3,151 72
Refunded taxes	3,803 24
Opening and paving streets	191,369 33
Total of disbursements	$6,875,107 31

ESTIMATES FOR THE CURRENT YEAR.

The estimate of expenses for the current fiscal year as detailed in statement B, amounts to the total of	$4,251,931 80
And the receipts from taxes in arrear, investments and other sources as detailed in statement marked C, are	1,765,274 00
Leaving the amount to be levied for on the real and personal property in the city	$2,486,657 80

A trifle less than the estimates compiled in this office for the last fiscal year.

The floating debt (so called) is now but $29,774.48, as against $155,777.37 at the beginning of the year 1881; the tax levy of your predecessors having been sufficient to meet all actual expenses and effect a reduction in the floating debt of $126,002.89, a complete justification of the wisdom of their measures, and of the action of the Committee of Ways and Means.

FUNDED AND GUARANTEED DEBT.

The funded and guaranteed debt, as of December 31, 1881, is $36,386,191.73, showing a net increase of $293,893.67—there having been issued during the year, by order of the Commissioners of Finance, $210,000 of Harford Run Improvement 4 Per Cent. Loan of 1920, (authorized by Ordinance No. 11, approved October 11, 1879, and ratified by the legal voters of the city at an election held November 4, 1879); $45,000 of the Paving 4 Per Cent. Loan of 1920, (authorized by Ordinance No. 140, approved May 26, 1880, as amended October 4, 1880, and ratified by the legal voters of the city at an election held October 27, 1880); $40,400 Jones' Falls 5 Per Cent. 1900 Improvement Loan—and redeemed $1,506.33 of Water 1875 6 Per Cent. Loan, leaving $4,840 of this loan outstanding, the money to meet the same being on deposit, in a separate account, in the National Farmers and Planters' Bank.

The premium realized on these loans was $16,585.

The funded and guaranteed debt being...	$36,386,191 73
And the productive assets being.....	30,182,000 70
The net debt is.....	$6,204,191 03
Net debt December 31, 1880.....	5,868,398 70

The amount of funded and guaranteed debt, the interest on which is paid by taxation, is.....	$12,916,386 82
The amount, December 31, 1880, was.....	13,162,653 48

FIVE MILLION LOAN SINKING FUND.

The value of the sinking fund, held by the Register in trust for the redemption of the Five Million Loan to the Baltimore and Ohio Railroad Company, due in 1890, is as of December 31, 1881, $2,402,372.91, an increase during the year, of $116,665.36.

WESTERN MARYLAND RAILROAD SINKING FUND.

This sinking fund, held by the Register in trust for the redemption of the bonds of the Western Maryland Railroad Company, guaranteed by the city, and the loan to it, has increased $9,793. The value of this fund December 31, 1881, was $204,159.09.

CITY PASSENGER RAILWAY COMPANIES.

The North Baltimore City Passenger Railway Company and the Citizens Railway Company are in default of payment of the park tax on gross receipts from passengers; the former, $6,190.79, for part of amount for quarter ending March 31, 1881; for the quarters ending June 30, 1881, and September 30, 1881; and the latter, $5,938.78, for the quarter ending September 30, 1881.

I respectfully refer you to the report of the Commissioners of Finance, for the condition of the various sinking funds under their charge and belonging to the city, and also to the accompanying tables:

Table A is a statement of the public debt of the city.

Table B is an estimate of requirements for the current fiscal year.

Table C is an estimate of receipts for the current fiscal year.

Table D is a detailed statement of the receipts and disbursements, and showing the appropriations for the various accounts.

Table E shows the aggregate monthly receipts and disbursements.

Table F shows the condition of the Five Million Loan sinking fund.

Table G shows the condition of the Western Maryland Railroad sinking fund.

Table H shows the monthly returns from the "Keepers of the Standards of Weights and Measures."

Respectfully submitted,

JOHN A. ROBB,
Register of the City.

STATEMENT A.

Statement of Funded Debt, December 31, 1881.

Loan.	Rate.	When Payable.	Amount.
Consolidated....	5 per cent.	At pleasure after the year 1860	$1,029,061 54
"	6 "	" " July 1, 1890	7,306,546 22
Public Park.....	6 "	" " Sept. 1, 1890	555,566 25
Exempt.....	6 "	" " Sept. 1, 1893	410,353 87
Water....	6 "	" " July 1, 1894	263,000 00
"	5 "	" " " 1894	3,737,000 00
Funding	6 "	" " " 1900	800,000 00
"	5 "	" " " 1916	1,000,000 00
Water.....	5 "	" " " 1916	5,000,000 00
Harford Run Improvement ...	4 "	At pleasure after Jan. 1, 1920	250,000 00
Paving Loan ...	4 "	" " Nov. 1, 1920	45,000 00
City Hall.....	6 "	July 1, 1884.....	1,000,000 00
One Million.....	6 "	January 1, 1886.....	1,000,000 00
Valley Railroad.	6 "	October 31, 1886.....	1,015,300 00
Five Million....	6 "	January 1, 1890.....	5,000,000 00
Consolidated....	6 "	September 1, 1893	2,211,068 05
Park Improvem't	6 "	January 1, 1895.....	185,723 80
City Hall.....	6 "	April 15, 1900.	1,000,000 00
Jones' Falls.....	6 "	" 9, 1900.	800,000 00
"	5 "	" 9, 1900.....	780,000 00
W. Md. Railroad.	6 "	January 1, 1902	1,000,000 00
City Hall.....	6 "	March 7, 1902.....	500,000 00
Water...	6 "	No interest allowed.....	4,840 00
Overdue Stock..	6 "	" "	732 00
		Total Funded Debt.....	$34,894,191 73

Guaranteed Debt.

Endorsement for W. Md. R. R. Co., 1st mtge.	$ 200,000 00	
" " " " 2d "	300,000 00	
" " " " 3d "	875,000 00	
" Union R. R. Co., 1st mtge..	117,000 00	
		1,492,000 00
Total Funded and Guaranteed Debt.....		$36,386,191 73

From which deduct—

Water Loans of 1894 and 1916, the interest on which is paid by revenue from water rents.	$9,000,000 00	
Park Loans, interest paid by City Passenger Railway Companies.....	555,566 25	
Cash in bank in reserve for the redemption of Water stock of 1875	4,840 00	
		9,560,406 25
Amount carried forward.....		$26,825,785 48

Amount brought forward.....			$26,825,785 48
And the following productive and interest-bearing assets:			
Mortgage on Baltimore and Ohio R. R. Co...		$5,000 000 00	
" Union R. R. Co.		117,000 00	
" West. Md. R. R. Co.....		200,000 00	
32,500 shares of Baltimore and Ohio Railroad Company Stock, at $180		5,850,000 00	
Value of Sinking Funds		8,150,286 45	
550 shares Baltimore and Reistertown Turnpike Company Stock, valued at.....		2,200 00	
625 shares Baltimore and Yorktown Turnpike Company Stock, valued at.....		3,125 00	
130 shares Baltimore and Havre de Grace Turnpike Company Stock, valued at		3,000 00	
137 shares Baltimore and Frederick Turnpike Company Stock, valued at		206 00	
Market houses, producing a yearly rental of.....	$45,000 00		
Improved wharf property, producing a yearly rental of.....	25,000 00		
Other real estate, producing a yearly rental of.....	7,746 76		
	$77,746 76		
Capitalized at 6 per cent,.....		1,295,777 00	20,621,594 45
			$6,204,191 03
The following are the unproductive assets:			
Second Mortgage on West. Md. R. R. Co	$300,000 00		
Interest thereon to Jan. 1, 1882	234,000 00		
		$534,000 00	
Third Mortgage on West. Md. R. R. Co.....	$875,000 00		
Interest thereon to Jan. 1, 1882	577,500 00		
		1,452,500 00	
Fourth Mortgage on West. Md. R. R. Co..... .....$1,000,000 00			
Interest thereon to Jan. 1, 1882.	570,000 00		
		1,570,000 00	
10,000 shares Valley Railroad Company of Virginia Stock, par $100.....		1,000,000 00	
4,000 shares Western Maryland Railroad Company Stock, par $50		200,000 00	
7,699 shares Baltimore and Susquehanna Tidewater Canal Stock, par $50.....		380,000 00	
887 shares Baltimore and Hall Springs Railway Company Stock, par $20.		17,740 00	
Besides other property, such as—			
Court Houses, Record Office, City Hall, Jail, Police Stations, Fire Engine Houses and Apparatus, School Houses, Almshouse, Ice Boats, Marine Hospital Grounds, Public Parks, &c., valued at		10,000,000 00	
			$15,154,240 00

APPENDIX TO STATEMENT A.

From the total Funded and Guaranteed Debt		$36,386,191 73
Deduct the following:		
Overdue Water Stock, no interest allowed...	$4,840 00	
Overdue Stock, no interest allowed.....	732 00	
And the following, the interest being provided for:		
By Baltimore and Ohio Railroad Company on.....	5,000,000 00	
" dividend on Baltimore and Ohio Railroad Company Stock, being the interest on.	5,416,666 66	
" Western Maryland Railroad Company, interest on first mortgage.....	200,000 00	
" City Passenger Railway Companies, on..	555,566 25	
" Water Board, from rents, on.....	9,000,000 00	
" Union Railroad Company, on.....	117,000 00	
" Commissioners of Finance, for interest on One Million Loan.....	1,000,000 00	
" Western Maryland Railroad Loan.....	1,000,000 00	
And the Western Maryland Railroad Bonds, guaranteed by the city.....	1,175,000 00	
		23,469,804 91
Leaving the amount on which interest is paid by taxation.....		$12,916,386 82

viz:	$2,809,061 54	interest, at 5	per cent.
	295,000 00	" 4	"
	9,812,325 28	" 6	"
	$12,916,386 82		

STATEMENT B.

The outstanding obligations of the city at the close of the fiscal year, December 31, 1881, and the estimated expenses for the fiscal year ending December 31, 1882, are as follow:

EXISTING CLAIMS.

Temporary loans from banks, &c.	$235,000 60
Balance due Water Board	13,023 05
" Park Board	176 44
" Jones' Falls Improvement account	24,745 43
" Perman't Water account	7,234 49
" Improvem't Harford Run account	107,048 12
" Paving Loan, 1920, account	10,479 54
Amount collected for opening streets	20,066 49
Paving notes, with interest added, maturing during the year	20,246 74
Paving certificates maturing during the year	11,749 15
Amount carried forward.	$449,769 45

STATEMENT B—Continued.

Amount brought forward.....	$449,769 45	
Less cash in bank.$343,953 26		
" amount due for paving streets..... 76,041 71		
	419,994 97	
		$29,774 48

Taxes in arrear, $1,543,026 33

ESTIMATED REQUIREMENTS FOR THE FISCAL YEAR ENDING DECEMBER 31, 1882.

One year's interest on Consolidated 5 Per Cent., 1885, Loan.....	$51,453 05	
One year's interest on Consolidated 6 Per Cent., 1890, Loan.....	438,392 76	
One year's interest on Public Park 6 Per Cent., 1890, Loan	33,333 96	
One year's interest on Exempt 6 Per Cent., 1893, Loan.....	24,621 24	
One year's interest on Water 6 Per Cent., 1894, Loan.....	15,780 00	
One year's interest on Water 5 Per Cent., 1894, Loan.....	186,850 00	
One year's interest on Water 5 Per Cent., 1916, Loan.....	250,000 00	
Amounts carried forward.....$1,000,431 01		$29,774 48

STATEMENT B—Continued.

Amounts brought forward....	$1,000,431 01	$29,774 48
One year's interest on Funding 6 Per Cent., 1900, Loan.	48,000 00	
One year's interest on Funding 5 Per Cent., 1916, Loan.	50,000 00	
One year's interest on Harford Run Improvement 4 Per Cent., 1920, Loan.....	10,000 00	
One year's interest on Paving 4 Per Cent., 1920, Loan.....	1,800 00	
One year's interest on City Hall 6 Per Cent., 1884, Loan.	60,000 00	
One year's interest on City Hall 6 Per Cent., 1900, Loan.	60,000 00	
One year's interest on City Hall 6 Per Cent., 1902, Loan.	30,000 00	
One year's interest on One Million 6 Per Cent., 1886, Loan.....	60,000 00	
One year's interest on Valley Railroad 6 Per Cent., 1886, Loan.....	60,918 00	
One year's interest on Five Million 6 Per Cent., 1890, Loan.....	300,000 00	
One year's interest on Consolidated 6 Per Cent., 1893, Loan.....	132,664 08	
Amounts carried forward.....	$1,813,813 09	$29,774 48

STATEMENT B—Continued.

Amounts brought forward....		$1,813,813 09	$29,774 48
One year's interest on Park Improvement 6 Per Cent., 1895, Loan.....		11,143 38	
One year's interest on Jones' Falls 6 Per Cent., 1900, Loan		48,000 00	
One year's interest on Jones' Falls 5 Per Cent., 1900, Loan		39,000 00	
One year's interest on Western Maryland Railroad 6 Per Cent., 1902, Loan.....		60,000 00	
One year's interest on Western Maryland Railroad 2d Mortgage Guaranteed Bonds		18,000 00	
One year's interest on Western Maryland Railroad 3d Mortgage Guaranteed Bonds		52,500 00	
		$2,042,456 47	
Less interest paid by Balto. & Ohio R. R. Co.....	$300,000 00		
Less interest paid by Commissioners Finance.....	190,500 00		
Less interest paid by Water Board	452,630 00		
Less interest paid by city passenger railw'y companies.....	33,333 96		
		976,463 96	
			1,065,992 51
Amount carried froward.....			$1,095,766 99

STATEMENT B—Continued.

Amount brought forward.....		$1,095,766 99
PUBLIC SCHOOLS.		
Salaries of teachers in white schools.....	$470,000 00	
Rents and ground rents, white schools.....	26,500 00	
Books and stationery, white schools.....	35,000 00	
Heating apparatus and its repairs, white schools.....	14,000 00	
Furniture, white schools.....	15,000 00	
Fuel, white schools.....	15,000 00	
Repairs and cleaning, white schools.....	4,500 00	
Incidentals, printing, &c., white schools.....	8,000 00	
Colored schools, salaries and sundries.....	62,000 00	
		650,000 00
POLICE DEPARTMENT.		
Salaries of officers and men and expenses.....		589,000 00
Amount carried forward.....		$2,334,766 99

STATEMENT B—Continued.

Amount brought forward.....		$2,334,766 99
INSPECTOR OF BUILDINGS DEPARTMENT.		
Repairs of public school-houses.....	$13,600 00	
Repairs of market-houses.....	4,150 00	
" City Hall.....	2,750 00	
" court-houses.....	3,000 00	
" clock at Northwestern Station.	90 00	
Completion of No. 4 Public School-house.....	16,684 00	
Completion of No. 2 Public School-house.....	10,992 88	
Salaries.....	3,000 00	
Contingent expenses.....	300 00	
		54,566 88
FIRE DEPARTMENT.		
Salaries.....	$117,491 88	
Apparatus and alteration.....	26,200 00	
Houses.....	23,000 00	
Accidents.....	2,000 00	
Horse feed.....	9,000 00	
Fuel.....	1,800 00	
Hose.....	8,000 00	
Horses.....	4,000 00	
Amounts carried forward.....	$191,491 88	$2,389,333 87

STATEMENT B—Continued.

Amounts brought forward.....	$191,491 88	$2,389,333 87
Ground rents.....	850 00	
Gas light.....	1,500 00	
Office expenses and pay of messenger...	850 00	
Washing...	1,400 00	
Fire alarm telegraph	15,153 94	
Furniture.....	2,500 00	
Harness.....	1,500 00	
Horse-shoeing.....	1,300 00	
Oils, grease, paints, &c.....	1,100 00	
Insurance on lives of members,	2,400 00	
Miscellaneous.....	1,500 00	
		221,545 82

DEPARTMENT OF LAMPS.

Lamp pillars, lamps, gasoline and repairs.....	$25,000 00	
Gas for lamps, &c.....	167,000 00	
Livery of horse for Superintendent.....	300 00	
		192,300 00

CITY POOR.

Maintenance of Bayview Asylum.....	$70,000 00	
To complete new building for insane.....	50,000 00	
Amounts carried forward.....	$120,000 00	$2,803,179 69

STATEMENT B—Continued.

Amounts brought forward.....	$120,000 00	$2,803,179 69
Transportation of poor to their homes.....	800 00	
Dispensaries.....	4,800 00	
St. Mary's Industrial School...	20,000 00	
Mount Hope Retreat.....	13,000 00	
Washington and Maryland Universities.	9,000 00	
Deaf and dumb at Frederick.	500 00	
Maryland Hospital for Insane.	23,000 00	
House of Refuge.....	20,000 00	
House of Reformation for Colored Children.....	15,000 00	
Widows and Orphans, War 1812.	300 00	
Old Defenders.....	300 00	
		226,700 00

CERTAIN EXPENSES.

Baltimore City Court.....	$16,000 00	
Court of Common Pleas.....	14,000 00	
Coroners.....	2,400 00	
Circuit Court.....	9,000 00	
Judgments and Suits.....	20,000 00	
City Jail.....	49,000 00	
Orphans' Court.....	8,000 00	
Magistrates.....	13,000 00	
Removed Cases.....	5,000 00	
Amounts carried forward.....	$136,400 00	$3,029,879 69

STATEMENT B—Continued.

Amounts brought forward.....	$136,400 00	$3,029,879 69
Registration.....	13,000 00	
Superior Court.....	15,000 00	
Supreme Bench.....	2,650 00	
Criminal Court.....	60,000 00	
		227,050 00

CITY COMMISSIONER'S DEPARTMENT.

Repairs of paved streets.....	$72,000 00	
" bridges.....	12,500 00	
" sewers and inlets...	12,300 00	
" unpaved streets.....	3,000 00	
Flag and stepping-stones.....	10,000 00	
Paving in front of city property.....	900 00	
Repaving streets.....	1,500 00	
Paving and repaving cross streets.....	15,000 00	
Incidentals.....	25 00	
Salaries.....	9,000 00	
Extension of Harford Run sewer and inlets.....	10,229 00	
To complete sewer in McMechen street with inlets.....	3,500 00	
Inlets on Fremont and Pratt streets.....	2,500 00	
Inlets on Courtland street and Scrabbel alley.....	500 00	
Amounts carried forward.....	$153,354 00	$3,256,929 69

STATEMENT B—Continued.

Amounts brought forward.....	$153,354 00	$3,256,929 69
Chatsworth Run sewer, from Baltimore to Gerinan street.	6,000 00	
To reconstruct outlet of Schroeder's Run sewer at Carey street.....	3,500 00	
Sewer at foot of Washington street.....	220 00	
Head-walls and extra foundation at outlet of Chatsworth Run.....	525 00	
Light-street bridge, reconstruction of draw and abutments.	5,300 00	
		168,899 00
CITY LIBRARY.		
Stationery for departments....		8,000 00
GENERAL EXPENDITURES.		
City Council, salary of members and expenses.....	$55,000 00	
Maintenance of ice-boat Maryland.....	10,000 00	
General expense.....	1,600 00	
Ground rent on Perkins Spring Square.....	2,052 00	
Expenses of public squares and springs.....	20,600 00	
Winding clock at Maryland Institute	75 00	
Amounts carried forward.....	$89,327 00	$3,433,828 69

STATEMENT B—Continued.

Amounts brought forward.....	$89,327 00	$3,433,828 69
Maryland Institute School of Design.....	3,000 00	
Salaries.....	67,020 00	
Public printing.....	1,800 00	
Transportation to House of Correction.....	150 00	
Ringing mechanics' bells.....	200 00	
State tax on city loans.....	10,500 00	
Discount for prompt payment of taxes—excess over interest received on taxes in arrear.....	60,000 00	
Interest on temporary loans...	5,000 00	
Mayoralty.....	2,500 00	
Insurance of Bayview Asylum	863 00	
Commissioners for Opening Streets.....	150 00	
Supervisors of Elections.....	2,000 00	
Lamplighters' salaries.....	43,680 00	
Salaries of City Collector's office.....	44,200 00	
Elections.....	7,700 00	
City property, ground rents....	3,800 00	
Dog Pound.....	1,100 00	
General licenses.....	1,400 00	
Ground rent on Riverside Park	3,771 00	
		348,161 00
Amount carried forward.....		$3,781,989 69

STATEMENT B—Continued.

Amount brought forward.....		

HEALTH DEPARTMENT.

Cleaning streets and removing garbage.....	$210,000 00	$3,781,989 69
Contract for removal of garbage.....	13,500 00	
General health.....	15,000 00	
Nuisance and sewers.....	10,000 00	
Salaries.....	19,600 00	
Cleaning cesspools in public schools.....	3,500 00	
Quarantine Hospital.....	16,000 00	
Post-mortems.....	400 00	
		288,000 00

SUPERINTENDENT OF CITY HALL.

Brushes, brooms, buckets, &c.	$ 400 00	
Cleaning rooms, corridors, &c.	4,800 00	
450 tons of coal at $5.50.....	2,475 00	
Cleaning carpets, curtains, &c.	352 00	
Repairs to furniture, gas fixtures, &c.....	658 00	
Gas light.....	4,521 00	
Ice for offices.....	600 00	
Removing ashes and dirt.....	200 00	
Winding fire-alarm striker and clock.....	500 00	
Amounts carried forward.....	$14,506 00	$4,069,989 69

STATEMENT B—Continued.

Amounts brought forward.....	$14,506 00	$4,069,989 69
Laborer, $50 per month.....	600 00	
New window shades, covering and uncovering chandeliers.	300 00	
Furniture and carpets and oil-cloth for offices.....	1,700 00	
Incidental expenses.....	300 00	
		17,406 00

CITY COURT AND CIRCUIT COURT BUILDING

Salary of janitor.....	$1,000 00	
" watchman.....	900 00	
Cleaning Courts and offices....	500 00	
40 tons of coal.....	220 00	
Ice.....	100 00	
Gas light.....	100 00	
Brooms, buckets, &c.....	35 00	
Stove for lower office..... .	16 00	
Hauling dirt and ashes.....	15 00	
Cleaning sink.....	18 00	
Street hose.....	8 00	
Repairing furniture.....	25 00	
Cleaning and repairing stoves.	35 00	
Incidentals.....	100 00	
Resolution No. 5 of 1881-2, to refit Court room of Circuit Court.....	650 00	
		3,722 00
Amount carried forward.....		$4,091,117 69

STATEMENT B—Concluded.

Amount brought forward.....		$4,091,117 69
HARBOR BOARD.		
Harbor, unexpended balance..	$ 2,836 61	
Required for 1882.....	80,000 00	
Ice-boat F. C. Latrobe.....	7,000 00	
Repairs of wharves.....	3,000 00	
New wall for Back Basin.....	5,000 00	
		97,836 61
COURT HOUSE AND RECORD OFFICE BUILDING.		
Expenses of Court-offices, salaries, &c.....		4,300 00
OPENING AND WIDENING STREETS.		
Opening an alley from Post-office avenue to Holliday street, city's proportion.....	$ 2,036 07	
Opening McElderry street, city's proportion.....	38 43	
Opening Wolfe street, from Monument to North avenue, city's proportion.....	33,683 43	
Opening Presstman street, city's proportion.....	9,521 99	
Opening Luzerne street, city's proportion.....	13,397 58	
		58,677 50
		$4,251,931 80

STATEMENT C.

Estimated Receipts from Taxes in arrear, and other sources of Revenue, for the fiscal year ending December 31, 1882.

Overdue taxes, estimated receipts during the year	$1,098,000 00
Baltimore and Ohio Railroad Company, dividend on stock	325,000 00
Public Schools, from State and tuition fees.	198,000 00
Fines from Sheriff	600 00
Jail Visitors	3,000 00
Bayview Asylum	1,600 00
Marine Hospital	9,000 00
Sale of refuse	1,600 00
Fire Department	150 00
Permits for sheds, signs, &c.	5,500 00
Permits for vaults and areas	1,100 00
Inspector and Sealer of Gas Meters	2,600 00
Markets, net	46,000 00
Wharfage, net	17,000 00
City seal	700 00
General licenses	45,000 00
Turnpike dividends	424 00
Auction duties	10,000 00
	$1,765,274 00

STATEMENT D.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns	Cash received from Collector of Taxes.	Cash received from other sources.
Baltimore City Court	$15,993 01	$17,400 00	$17,400 00		
Court of Common Pleas	13,959 11	13,965 71	13,965 71		
Coroners	2,400 00	2,400 00	2,400 00		
Circuit Court	8,363 30	9,500 00	9,500 00		
Fines		647 75			$647 75
Judgments and Suits	24,410 52	22,190 05	22,000 00		190 05
Jail	56,164 12	59,312 19	56,218 64		3,093 55
Orphans' Court	7,676 46	8,000 00	8,000 00		
Magistrates	12 960 00	13,250 00	13,250 00		
Removed Cases	4,346 28	5,000 00	5,000 00		
Registration	13,554 04	13,766 85	13,766 85		
Superior Court	14,332 22	16,000 00	16,000 00		
Supreme Bench	2,650 00	2,650 00	2,650 00		
Certain Expenses		242,870 41		$242,870 41	
Criminal Court	58,465 26	58,578 81	58,547 84	30 97	
Schools :					
Public Schools	562,459 18	1,215,964 42	623,000 00	413,457 45	179,506 97
Colored "	60,530 67	18,650 69			18,650 69
City Poor		202,881 74		202,881 74	
Bayview	65,854 61	67,511 96	65,862 50		1,649 46
Building an addition to Bayview	49,765 77	49,800 00	49,800 00		
Transportation of Poor to their Homes	641 50	800 00	800 00		
Dispensaries	4,400 00	4 800 00	4,800 00		
St. Mary's Industrial School	17,898 25	20,000 00	20,000 00		
Mt. Hope Retreat	13,000 00	13,000 00	13,000 00		

Washington University	4,236 58	9,000 00	9,000 00		
University of Maryland	4,230 49				
Deaf and Dumb at Frederick	496 24	500 00	500 00		
Maryland Hospital for the Insane	19,862 31	23,000 00	23,000 00		
House of Refuge	14,163 83	15,880 00	15,880 00		
House of Reformation and Instruction for Colored Children	13,980 00	15,000 00	15,000 00		
Widows and Orphans, war 1812	300 00	300 00	300 00		
Old Defenders	300 00	300 00	300 00		
Park Sinking Fund	14,289 49	14,289 49			14,289 49
City Hall Sinking Fund	290 21	290 21		290 21	
Funded Debt 1868 Sinking Fund	145 08	145 08		145 08	
Harbor Commission	66,463 39	69,300 00	69 300 00		
Iceboat "F. C. Latrobe."	12,499 02	12,500 00	12,000 00		500 00
Repairs of Wharves	2,460 24	2,700 00	2,700 00		
Repairs of City Dock	3,573 31	3,611 81	3,611 81		
Wharf at foot of Cross street	998 92	1,000 00	1,000 00		
Police Department	584,846 50	1,133,007 26	585,000 00	548,007 26	
Health Department.					
Cleaning Streets and Garbage	200,023 51	200,029 41	200,029 41		
" (special)	9,997 65	10,000 00	10,000 00		
Marine Hospital	15,494 24	24,369 24	15,500 00		8,869 24
Refuse		1,757 76			1,757 76
Nuisances and Sewers	8,600 00	8,600 00	8,600 00		
Post Mortems	300 00	300 00	300 00		
General Health	34,049 42	34,232 50	34,232 50		
Fire Department.					
Salaries and Incidentals	193,796 98	193,952 19	193,801 94		150 25
Amounts carried forward	$2,215,221 71	$3,853,005 53	$2,216,017 20	$1,407,683 12	$229,305 21

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector of Taxes.	Cash received from other sources.
Amounts brought forward	$2,215,221 71	$3,853,005 53	$2,216,017 20	$1,407,683 12	$229,305 21
Building Engine House No. 4	3,514 00	8,000 00	8,000 00		
New Fire Alarm Boxes	994 08	1,000 00	1 000 00		
Inspector of Buildings.					
Salaries and Incidentals	3,186 39	3,200 00	3,200 00		
Permits for Sheds, Signs, &c	961 72	5,774 06			5,774 06
Repairs of School Houses	33,440 20	34,892 00	34,892 00		
" City Property	3,401 01	3,500 00	3,500 00		
" Clock on Northwest'rn Station	100 00	200 00	200 00		
" Belair Market	3,875 00	4,000 00	4,000 00		
" Market Houses	4,831 41	5,000 00	5,000 00		
" City Hall	2,875 59	3,000 00	3,000 00		
Improvement of Primary School No. 18	5,913 00	6,000 00	6,000 00		
Iron Railings in front of School No. 12	298 00	300 00	300 00		
Building Sheds at Broadway Market	8,919 78	10,000 00	10 000 00		
" Grammar School No. 7	8,114 40	8 266 00	8,266 00		
" " " " 2	6,877 66	18,000 00	18,000 00		
" " " " 4	3,854 65	21,000 00	21,000 00		
" Primary " " 14	500 00	500 00	500 00		
Paving Lexington Market	12,200 00	12,200 00	12,200 00		
Wells and McComas Monument	35 00	50 00	50 00		
Park Commission.					
Druid Hill Park	88,264 38	93,307 62			93,307 62
Patterson "	12,166 69	275 00			275 00
Federal Hill "	20,006 87	20,011 50	20,000 00		11 50

Riverside Park	8,772 32	8,776 92	8,770 62		6 30
Harlem "	2,585 78	2,600 00	2,500 00		100 00
City Commissioner's Department.					
Salaries and Incidentals	9,504 00	9,525 00	9,525 00		
Repairs of Paved Streets	69,144 90	70,198 93	70,000 00		198 93
" Unpaved "	1,630 78	1,800 00	1,800 00		
" Bridges	11,617 15	12,000 00	12,000 00		
" Sewers	13,799 98	16,280 65	14,200 00		2,080 65
" Washington Road	300 00	300 00	300 00		
Changing Grade at Cor. Carey and Baltimore Streets		300 00	300 00		
Changing Grade at Eutaw and Henrietta Streets	75 00	75 00	75 00		
Washington Street Sewer	280 00	400 00	400 00		
Shelling Binney Street		100 00	100 00		
Improvement of Jones' Falls	229,384 99	621 00			621 00
Jones' Falls 5 Per Cent. Loan		42,420 00			42,420 00
Traps to Inlets Pratt Street Sewer	600 00	600 00	600 00		
Recurbing Eutaw Street	351 85	400 00	400 00		
Vaults and Areas		1,224 15			1,224 15
Culvert over Harris' Creek	800 00	800 00	800 00		
Recurbing Mulberry Street	116 60	150 00	150 00		
Repaving Streets	931 59	1,000 00	1,000 00		
Shelling Ferry Bar Road	95 10	100 00	100 00		
Cross Streets	5,608 30	6,000 00	6,000 00		
Flag and Stepping-Stones	5,995 96	6,000 00	6,000 00		
Franklin Street Sewer	4,276 84	4,283 26	4,283 26		
Inlets to Broadway Sewer	155 10	332 04	332 04		
Harford Run "	7,371 98	17,600 93	17,500 00		100 93
Baltimore-Street "	801 70	851 70	851 70		
Fremont-Street "	5,987 30	6,004 25	6,000 00		4 25
Eastern-Avenue "	4,977 99	5,000 00	5,000 00		
Amounts carr'ed forward	$2,824,716 75	$4,327,225 54	$2,544,112 82	$1,407,683 12	$375,429 60

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector of Taxes.	Cash received from other sources.
Amounts brought forward	$2,824,716 75	$4,327,225 54	$2,544,112 82	$1,407,683 12	$375,429 60
Chatsworth Run Sewer	38 879 08	41,711 23	41,216 23		495 00
Iron Plates	3,874 71	3 892 16	3,880 00		12 16
Improvement of Harford Run	150,787 50	257,665 00			257,665 00
Inlets on North Avenue	3,901 37	4,000 00	4,000 00		
Paving City Property	468 04	500 00	500 00		
Names on Street Lamps	1,750 0	1,750 00	1,750 00		
Light-Street Bridge	828 01	1,200 00	1,200 60		
Paving Loan of 1920	34,520 46	45,000 00			45,000 00
Inspector and Sealer of Gas Meters		3,208 00	75 00		3,133 00
Gas	176,530 19	186,334 68	186,334 68		
Lamp-Pillars and Lamps	22,534 45	25,093 42	25,000 00		93 42
General Expenditures.					
City Council	53,283 02	53,546 72	53,546 72		
Iceboat "Maryland"	10,000 00	10,000 00	10,000 00		
General Expense	1,596 73	1,600 00	1,600 00		
Masonic Hall	2,938 78	2,962 02	2,962 02		
Court House	4,343 52	4,360 00	4,360 00		
Madison Square	1,498 08	1,500 00	1,500 00		
Eastern Fountain	1,830 37	1,980 00	1,500 00		480 00
Franklin Square	1,407 47	1,500 00	1,500 00		
Union "	1,001 64	1,500 00	1,500 00		
Perkins' Spring Square	3,193 97	3,282 93	3,282 93		
Park Place "	3,081 39	3,100 00	3,100 00		
Lafayette "	1,327 12	1,500 00	1,500 00		

Jackson Square	845 43	850 00	850 00	
Mt. Vernon Squares	2,000 00	2,000 00	2,000 00	
Broadway "	5,319 28	5,320 00	5,320 00	
Eutaw " 1st Division	2,012 65	2,012 69	2,012 69	
" " 2d "	728 78	1,000 00	1,000 00	
Baker Circle	100 00	100 00	100 00	
Lafayette Market	308 37	592 00	61 50	530 50
Centre "	760 37	7,866 50	66 75	7,799 75
Belair "	554 88	7,892 10		7,892 10
Fell's Point "	703 58	6,703 18	89 00	6,614 18
Lexington "	589 13	11,420 56		11,420 56
Richmond "	464 40	3,623 20		3,623 20
Hanover "	720 81	4,524 72	89 00	4,435 72
Cross-Street "	1,187 80	3,772 44	800 00	2,972 44
Hollins "	625 18	3,784 52	284 25	3,500 27
Broadway Hall	101 20	1,126 00	100 00	1,026 00
Hollins "	22 50	228 00		228 00
Cross-Street "		331 00		331 00
Winding Maryland Institute Clock		75 00	75 00	
Tax Commission	1,027 33	2 000 00	2,000 00	
System of Sewerage	1,000 00	1,000 00	1,000 00	
Maryland Institute	3,000 00	3,000 00	3,000 00	
Entertaining Foreign Visitors	3,200 00	3,200 00	3,200 00	
Insurance of Baltimore City College and the Female High Schools	1,720 00	2,100 00	2,100 00	
Wharfage	7,570 89	24,252 19	125 00	24,127 19
Salaries	67,020 00	67,020 00	67,020 00	
City Library	6,998 45	7,000 70	7,000 00	70
Sesqui-Centennial Celebration	2,504 50	2,650 53	2,600 00	50 53
Public Printing	1,507 91	1,821 00	1,800 00	21 00
Transportation to House of Correction	14. 50	250 00	250 00	
Tax Sales	7,895 33	10,434 40		10,434 40
Special Appropriations	12,687 34	12,687 34	12,687 34	
Amounts carried forward	$3,477,612 26	$5,185,049 77	$3,010,050 93	$1,407,683 12	$767,315 72

STATEMENT D.—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns	Cash received from Collector of Taxes.	Cash received from other sources.
Amounts brought forward	$3,477,612 26	$5,185,049 77	$3,010,050 93	$1,407,683 12	$767,315 72
Ground for Grammar School No. 3	300 00	300 00	300 00		
Ringing Mechanics' Bells	200 00	200 00	200 00		
State Tax on City Loans	10,318 92	10,052 00	10,052 00		
Interest	127,226 03	273,179 27	90 800 00	182,379 27	
Superintendent of City Hall	15,900 19	16,000 00	16,000 00		
Interest on Stock Debt	1,842,741 79	2,953,450 45	1,842,486 49		1,110,963 96
Mayoralty	2,561 75	2,610 91	2,603 91		7 00
Commissioners for Opening Streets	129 41	150 00	150 00		
Supervisors of Elections	1,842 99	2,000 00	2,000 00		
Lamplighters	43,680 00	43,680 00	43,680 00		
Appeal Tax Court	130 89	200 00	200 00		
City Collector	44,197 07	44,232 24	44,232 24		
Elections	7,080 74	7,700 00	7,700 00		
City Property	2,950 39	4,607 50	3,800 00		807 50
Dog Pound	1,092 30	1,247 15	1,100 00		147 15
Miscellaneous:					
Water Board	730,897 54	746,887 00	7,650 00		739,237 00
Drinking Fountains	800 00	800 00	800 00		
Permanent Water Supply	105,741 98				
City Seals		725 80			725 80
General Licenses	1,308 82	47,399 21	1,500 00		45,899 21
Sales of City Code		25 00			25 00
Intestate Estates	20 00	862 39			862 39
New Richmond Market		269 10			269 10
Turnpike Dividends		424 25			424 25

Loans	260,000 00	345,000 00			345,000 00
Conscience Fund		2,514 94			2,514 94
Sarah Ann Fowler's Estate	49 95	49 95	49 95		
Sale of City Property	3,151 72	3,199 72			3,199 72
Refunded Taxes	3,803 24	5,014 81	5,000 00		14 81
Auction Duties		10,198 31			10,198 31
Internal Improvements		1,015 74		1,015 74	
Direct Tax		1,404,919 08		1,404,919 08	
Miscellaneous Stocks		668,282 30		668,282 30	
Opening Streets		39,077 36		39,077 36	
Condemnation of Federal Hill	2,745 12	3,723 70	3,723 70		
Widening Saratoga Street	50 00	50 00	50 00		
Closing Fourth Street	72 10				
" Mount Hope Lane	140 00	505 50		505 50	
" Addison Alley	248 61				
" a Lane, from North Avenue to Presstman Street	112 00	352 00		352 00	
" Lanvale Road	283 33				
" 20-foot Alley, from Fulton Street to Bruce Alley	252 00				
" Belvidere Street	137 82				
" Hanson Mill Road	30 00				
" 20-foot Alley, from Edmondson to Harlem Avenue		520 00		520 00	
Opening Presstman Street	701 25	4,390 19		4,390 19	
" Chase Street	6,750 66	6,245 34	1,750 54	4,494 80	
" Lexington Street		548 48	548 48		
" Forrest Street		272 96	272 96		
" Oliver Street		981 33	981 33		
" Bond Street	175 00				
" McKim Street		2,012 50		2,012 50	
" Ensor Street	4,723 76	4,501 92	1,487 22	3,014 70	
" Caroline Street		104 60	104 60		
Amounts carried forward	$6,700,159 63	$11,845,532 77	$5,099,274 35	$3,718,646 56	$3,027,611 86

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns	Cash received from Collector of Taxes.	Cash received from other sources.
Amounts brought forward	$6,700,159 63	$11,845,532 77	$5,099,274 35	$3,718,646 56	$3,027,611 86
Opening North Street	1,827 30	1,286 09		1,286 09	
" Broadway	3,632 30	3,752 30	1,554 18	2,053 12	145 00
" Franklin Street		102 56	102 56		
" Robert Street	35,550 00	32,683 77	24,846 15	7,837 62	
" Wolfe Street	20 00	4,583 05		4,583 05	
" John Street		2 00		2 00	
" Patapsco Street	30 00				
" Jones Street	62 79				
" Collington Avenue	65 76				
" Burke Street	58 05				
" Race Street	215 19				
" Cannon Street	63 20				
" Vincent Alley	1,046 37	1,046 37	63 41	982 96	
" Marshall Street No. 4	236 96				
" " " 5	4,266 66	4,470 73	3,699 73	771 00	
" Biddle Street	700 00	800 00	700 00		100 00
" Rutter Alley	72 00				
" McElderry Street		2,521 26		2,521 26	
" Addison Alley	1 00				
" McHenry Street		68 48	55 44	13 04	
" Hargrove Alley	27 00				
" Valley Street	2,709 93	2,392 88	2,392 88		
" Orleans Street		384 92	384 92		
" Wilcox Street		109 03		109 03	
" Covington Street	415 20				
" Towson Street	90 00				

Opening Scott Street	464 03			
" a Court from Post-Office Avenue to Holliday Street	350 82	50 00		50 00
" Russell Street	200 00			
" Calvert Street	32 80			
" Carey Street	511 99			
" Clement Street	176 00			
" Tenant Street	358 78			
" Hoffman Street	54 50			
Paving Interest		11,966 67		11,966 67
" Townsend Street	369 09	586 97		586 97
" Bounty Lane		18 60		18 60
" Lanvale Street	324 80	586 97		586 97
" Washington Street	3,910 88	334 89		334 89
" Pitcher Street		148 60		148 60
" Pratt Street		22,053 43		22,053 43
" Courtland Street	10 53	45 84		45 84
" Light Street	3,650 07	2,273 98		2,273 98
" Saratoga Street	391 27	318 30		318 30
" Calvert Street	2,800 67	2,069 38		2,069 38
" Fayette Street	503 91	658 91		658 91
" Sterrett Street	356 40	251 98		251 98
" Hoffman Street		1,396 39		1,396 39
" Baltimore Street		25,188 04		25,188 04
" Mount Street	984 54	362 52		362 52
" 15-foot Alley from Presstman to Laurens Street		273 43		273 43
" Bethel Street		341 14		341 14
" St. Paul Street	4,177 25	938 05		938 05
" North Avenue	66,761 18	15,473 56		15,473 56
" Baker Street	41 95			
" Wilkens Avenue	3,255 93	77 15		77 15
" Mason Alley	36 07	102 84		102 84
Amounts carried forward	$6,840,972 80	$11,985,253 85	$5,133,073 62	$3,824,323 37	$3,027,856 86

STATEMENT D—Concluded.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector of Taxes.	Cash received from other sources.
Amounts brought forward	$6,840,972 80	$11,985,253 85	$5,133,073 62	$3,824,323 37	$3,027,856 86
Paving Second Street		377 39	377 39		
" Castle Street	1,289 73	1,129 22		1,129 22	
" Foster Alley		609 87		609 87	
" Vincent Alley		39 86		39 86	
" Jackson Street		5,639 88		5,639 88	
" Eager Street		432 00		432 00	
" Lombard Street		8,874 24		8,874 24	
" Marshall Street		968 16		968 16	
" Chester Street		109 46		109 46	
" Pearl Street		59 23	59 23		
" Randall Street		690 08		690 08	
" Beason Street	91 78	277 31		277 31	
" Fourth Street		117 56		117 56	
" Canton Avenue		174 42		174 42	
" West Falls Avenue	10 00				
" West Street	15 29	45 86	45 86		
" Covington Street		307 89		307 89	
" Central Avenue	163 34	1 31		1 31	
" O'Donnell Street	594 30	401 47		401 47	
" Oliver Street	10,177 88	10,206 38		10,206 38	
" Henry Street	1,195 98	687 75		687 75	
" Gilmor Street	1,457 99	451 42		451 42	
" Ann Street	559 37	522 59		522 59	
" Plum Alley	652 70	352 95		352 95	
" Cole Street	1,923 21	737 45		737 45	
" Sarah Ann Street		190 99		190 99	

Paving Valley Street	2,586 14	575 39		575 39
" Bloom Street	1,322 33	764 25		764 25
" Frederick Avenue		78 53		78 53
" Sharp Street	5,630 30	6,043 02		6,043 02
" Elliott Street	618 80	585 90		585 90
" Port Street	439 38	512 85		512 85
" Montgomery Street	1,114 73	1,286 62		1,286 62
" Claret Alley	642 14	489 74		489 74
" Goodman Alley	555 80	603 51		603 51
" Sterrett Alley		309 24		309 24
" Truxton Street	891 46	97 16		97 16
" China Street	636 29	73 88		73 88
" China Alley	35 00			
" Binney Street	1,515 57	20 37		20 37
" Fawn Street	15 00			
Mayor and City Council	5,133,556 10			
Cash	6 896,542 95	6,875,107 31		
Totals	$18,905 206 36	$18,905,206 36	$5,133,556 10	$3,868,686 09	$3,027,856 86

STATEMENT E.

Receipts and Disbursements from December 31, 1880, to December 31, 1881.

	Receipts.	Disbursements.
January	$207,477 81	$545,239 27
February	591,105 49	416,689 58
March	359,510 69	408,342 18
April	695,049 77	1,162,328 36
May	223,794 66	488,833 40
June	1,995,285 11	521,158 30
July	242,148 25	670,112 34
August	276,788 47	361,625 44
September	461,944 74	449,745 84
October	366,860 28	596,425 17
November	517,154 16	858,384 91
December	959,423 52	396,222 52
	$6,896,542 95	$6,875,107 31
Balance December 31, 1880	322,517 62	
Balance December 31, 1881		343,953 26
	$7,219,060 57	$7,219,060 57

STATEMENT F.

FIVE MILLION LOAN SINKING FUND.

The condition of the Sinking Fund for the Redemption of the Five Million Loan to the Baltimore and Ohio Railroad Company the 31st day of December, 1881, is as follows:

Consolidated Loan, 1890, 6 per cent. stock	$183,900 00
Five Million Loan, 1890, 6 per cent. stock	847,300 00
One Million Loan, 1886, 6 per cent. stock	157,400 00
City Hall Loan, 1884, 6 per cent. stock	52,900 00
City Hall Loan, 1900, 6 per cent. stock	24,800 00
City Hall Loan, 1902, 6 per cent. stock	5,200 00
Funding Loan, 1900, 6 per cent. stock	55,700 00
Consolidated Loan, 1893, 6 per cent. stock	331,900 00
Park Improvement Loan, 1895, 6 per cent. stock	6,600 00
Exempt Loan, 1893, 6 per cent. stock	12,200 00
Amount carried forward	$1,677,900 00

STATEMENT F—Concluded.

Amount brought forward...	$1,677,900 00	
Public Park Loan, 1890, 6 per cent. stock	45,300 00	
Western Maryland Railroad Loan, 1902, 6 per cent. stock	50,000 00	
Valley Railroad Loan, 1886, 6 per cent. stock	50,000 00	
Jones' Falls Loan, 1900, 6 per cent. stock	16,500 00	
		$1,839,700 00
Water Loan, 1894, 5 per cent. stock	$ 28,000 00	
Water Loan, 1916, 5 per cent. stock	288,100 00	
Jones' Falls Loan, 1900, 5 per cent. stock	70,200 00	
Consolidated Loan, 1885, 5 per cent. stock	34,000 00	
		420,300 00
Western Maryland Railroad Guaranteed Bonds, (registered)	$25,000 00	
Western Maryland Railroad Guaranteed Bonds, (coupon)	68,000 00	
		93,000 00
Union Railroad Guaranteed Bonds		1,500 00
Cash		47,872 91
		$2,402,372 91

STATEMENT G.

WESTERN MARYLAND RAILROAD SINKING FUND.

The condition of the Sinking Fund for the Redemption of the Bonds of the Western Maryland Railroad Company, guaranteed by the City of Baltimore, December 31, 1881, is as follows:

Consolidated Loan, 1890, 6 per cent. stock	$9,400 00	
Consolidated Loan, 1893, 6 per cent. stock	3,600 00	
One Million Loan, 1886, 6 per cent. stock	1,500 00	
Western Maryland Railroad Loan, 1902, 6 per cent. stock.	500 00	
Public Park Loan, 1890, 6 per cent. stock	1,100 00	
Five Million Loan, 1890, 6 per cent. stock	400 00	
Valley Railroad Loan, 1886, 6 per cent. stock	1,200 00	
City Hall Loan, 1884, 6 per cent. stock	2,000 00	
Jones' Falls Loan, 1900, 6 per cent. stock	800 00	
		$20,500 00
Water Loan, 1916, 5 per cent. stock	$12,800 00	
Water Loan, 1894, 5 per cent. stock	100 00	
Amounts carried forward.	$12,900 00	$20,500 00

STATEMENT G—Concluded.

Amounts brought forward.	$12,900 00	$20,500 00
Consolidated Loan, 1885, 5 per cent. stock.....	500 00	
Jones' Falls Loan, 1900, 5 per cent. stock.....	2,500 00	
		15,900 00
Western Maryland Railroad Guaranteed Bonds, (registered	$9,000 00	
Western Maryland Railroad Guaranteed Bonds, (coupon).	158,000 00	
		$167,000 00
		$203,400 00
Cash.....		759 09
		$204,159 09

STATEMENT H.

Statement showing the Monthly Returns of the "Keepers of the Standards of Weights and Measures," from March 1, 1881, to December 31, 1881.

MARCH.		
C. Leutbecker, N. W. District	$157 86	
Chas. E. Stewart, S. W. "	276 75	
Francis Herr, S. E. "	219 54	
Wm. Henry, S. W. "	219 54	
		$ 873 69
APRIL.		
C. Leutbecker	$289 64	
Chas. E. Stewart	453 78	
Francis Herr	216 84	
Wm. Henry	207 76	
		1,168 02
MAY.		
C. Leutbecker	$320 80	
C. E. Stewart	403 19	
Francis Herr	22 77	
Wm. Henry	481 13	
		1,227 89
JUNE.		
C. Leutbecker	$ 84 22	
Chas. E. Stewart	181 16	
Wm. Henry	136 70	
Francis Herr	204 60	
		606 68
Amount carried forward		$3,876 28

STATEMENT H—Continued.

Amount brought forward.....		$3,876 28
JULY.		
C. Leutbecker.....	$ 53 67	
Chas. E. Stewart.....	153 18	
Wm. Henry.....	153 81	
Francis Herr.....	272 30	
		632 96
AUGUST.		
Chas. E. Stewart.....	$ 3 66	
C. Leutbecker.....	.....	
Wm. Henry.....	53 80	
Francis Herr.....	35 66	
		93 12
SEPTEMBER.		
Chas. E. Stewart.....	$30 50	
C. Leutbecker.....	23 86	
Wm. Henry.....	18 78	
Francis Herr.....	15 42	
		88 56
OCTOBER.		
C. Leutbecker.....	$15 01	
C. E. Stewart.....	.....	
Wm. Henry.....	27 76	
Francis Herr.....	22 75	
		65 52
Amount carried forward.....		$4,756 44

STATEMENT H—Concluded.

Amount brought forward.....		$4,756 44
NOVEMBER.		
C. Leutbecker.....	$35 84	
Chas. E. Stewart.....	42 82	
Francis Herr.....	41 27	
Wm. Henry.....	9 95	
		129 88
DECEMBER.		
C. Leutbecker.....	$40 53	
Chas. E. Stewart.....	39 85	
Wm. Henry.....	27 82	
Francis Herr.....	27 88	
		136 08
		$5,022 40

COMMUNICATIONS.

HEALTH DEPARTMENT—CITY HALL.

Baltimore, January 12, 1882.

JOHN A. ROBB, Esq., *City Register:*

Sir—I herewith append estimate for the Health Department for the year 1882, viz:

Street and garbage account	$210,000
Contract removing garbage from city account.	13,500
General health account	15,000
Nuisance and sewers account	10,000
Salaries	19,600
Cleaning cesspools, public schools	3,500
Marine Hospital	16,000
Post-mortems	400
	$288,000

Respectfully submitted,

JAMES A. STEUART, M. D.,
Commissioner of Health.

OFFICE BOARD OF POLICE COMMISSIONERS.

Baltimore, January 13, 1882.

JOHN A. ROBB, Esq., *City Register:*

Dear Sir—We respectfully certify that the sum of five hundred and eighty-nine thousand dollars will be

required during the present year for the necessary expenses of the Police Department of the city of Baltimore.

Very respectfully,

GEORGE COLTON,
JOHN MILROY,
JAMES R. HERBERT,
Commissioners.

Baltimore, January 7, 1882.

To JOHN A. ROBB, ESQ., *Register Baltimore City:*

Dear Sir—Herewith please find estimated amount required for this department for the year ending December 31, 1882.

Respectfully yours,

F. W. KING,
General Supt. of Lamps, &c.

Lamp pillar and lamp acct., including gasoline lamp supplies and repairs, gas and gasoline posts, lamps or lanterns, repairs of gas lamps, street signs and incidentals	$ 25,000
Gas account, including gas for street lamps, markets, halls, bridges, squares, electric lights, &c	167,000
Keeping of Genl. Sup'ts horse and wagon	300

ESTIMATED RECEIPTS.

Repairs of lamps	$ 100
Inspecting meters	2,500

OFFICE BOARD OF FIRE COMMISSIONERS—CITY HALL,

Baltimore, January, 1882.

Dear Sir—The following is the estimate of expenses for Baltimore City Fire Department, year ending December 31, 1882:

Salaries	$117,491 88
Apparatus and alteration	26,200 00
Houses	23,000 00
Accident	2,000 00
Feed	9,000 00
Fuel	1,800 00
Hose	8,000 00
Horses	4,000 00
Ground rents	850 00
Gas light	1,500 00
Office expenses (including pay of Messenger)	850 00
Washing	1,400 00
Telegraph	15,153 94
Furniture	2,500 00
Harness	1,500 00
Horseshoeing	1,300 00
Oils, grease, paints, &c	1,100 00
Insurance indemnity on lives of members	2,400 00
Miscellaneous	1,500 00
	$221,545 82
Balance on No. 4 Engine House undrawn	4,486 00

Of the above estimate, the sum asked for apparatus is for the purchase of a new hook and ladder truck, the building of a new steam fire engine and two hose car-

riages, and three new boilers; also, the usual repair made necessary during the year. The sum asked for houses includes the alterations actually needed in Nos. 3 and 5 Engine Houses.

SAMUEL W. REGESTER,
President.

Attest:
GEO. A. CAMPBELL, *Secretary.*

TO JNO. A. ROBB, ESQ., *City Register.*

CITY COMMISSIONER'S OFFICE.

Baltimore, January 5, 1882.

JOHN A. ROBB, ESQ., *City Register:*

Sir—The following is a statement of moneys required for the City Commissioner's Department, for the year ending December 31, 1882:

Repairs of paved streets	$72,000 00
" bridges	12,500 00
" sewers and inlets	12,300 00
" unpaved streets	3,000 00
Flag and stepping-stones	10,000 00
Paving in front of city property	900 00
Repaving streets	1,500 00
Paving and repaving "cross streets"	15,000 00
Incidentals	25 00
Salaries	9,000 00
Extension of Harford Run sewer and inlets.	10,228 95
To complete sewer in McMechen street with inlets	3,500 00

Inlets on Fremont and Pratt streets	2,900 00
Inlets on Courtland street and Scrabble alley	500 00
Chatsworth Run sewer, from Baltimore to German street	6,000 00
To reconstruct outlet of Schroeder's Run sewer at Carey street	3,500 00
Sewer at foot of Washington street	220 00
	$163,073 95
Head-walls and extra foundation at outlet of Chatsworth Run	525 00
	$163,598 95
Reconstruction of "draw and abutments" of Light street bridge	5,300 00
	$168,898 95

J. H. TEGMEYER,
City Commissioner.

Baltimore, January 4, 1882.

JOHN A. ROBB, Esq., *City Register:*

Sir—The following is an estimate of requirements for Old Masonic Hall, City and Circuit Courts:

Salary of janitor	$1,000 00
" watchman	900 00
Cleaning courts and offices	500 00
40 tons of coal	220 00
Ice	100 00

Gas	100 00
Brooms, buckets, &c., &c	35 00
Stove for lower office	16 00
Hauling dirt and ashes	15 00
Cleaning sink	18 00
Street hose	8 00
Repairing furniture	25 00
Cleaning and repairing stoves	35 00
Incidentals	100 00
	$3,072 00

Respectfully submitted,

P. REILLY, *Janitor.*

OFFICE OF THE
HARBOR BOARD OF BALTIMORE—CITY HALL,

Baltimore, January 12, 1882.

MR. JNO. A. ROBB, *City Register:*

Dear Sir—As the Board have as yet *not* adopted any estimates for 1882, I can only give you the figures I have recommended to them, as below:

Account harbor—	
Unexpended balance	$ 2,836 61
Appropriation	80,000 00
Total	$82,836 61
Account ice-boat—	
Appropriation	7,000 00

Account repairs of wharves—	
Appropriation	3,000 00
Account new wall, Back Basin	5,000 00
Grand total	$97,836 61

Respectfully yours,

N. H. HUTTON, *Engineer, &c.*

CITY LIBRARY—CITY HALL,

Baltimore, January 11, 1882.

JOHN A. ROBB, ESQ., *City Register:*

The estimated expenses of this office for the year will be $8,000.

Very respectfully,

SAML. D. SMITH,
City Librarian.

OFFICE OF SUPERINTENDENT CITY HALL,

Baltimore, January 10, 1882.

JOHN A. ROBB, ESQ., *City Register:*

Dear Sir—The following is the estimate of the expenses of this department for the year ending December 31, 1882:

Brushes, brooms, buckets, mops, soap, feather dusters, muslin, disinfectants, &c.	$ 400 00
Cleaning rooms, corridors, &c.	4,800 00
450 tons coal @ $5.50 per ton	2,475 00
Cleaning carpets, drapery and curtains	352 00
Repairs to furniture, gas fixtures, &c.	658 00
Gas	4,521 00
Incidental expenses	300 00
Ice	600 00
Removing ashes and dirt	200 00
Winding fire-alarm striker and clock, &c.; regulating 16 sympathetic electric clocks; repairs, &c.	500 00
Laborer @ $50 per month	600 00
Covering and uncovering chandeliers and mirrors, new window shades, &c.	300 00
The following-named offices require to be covered with either oil-cloth or carpet—furniture, &c.:	
Water office, oil-cloth; Fire Commissioners' office, carpet; office of General Superintendent and Inspector of Gas Meters, book-case and carpet; Board room, Police Commissioners, carpet; waiting room, oil cloth; office of clerk to Police Board, book-case; office of Commissioners of Streets, carpets; dressing room, First Branch Council, carpet; office of Inspector Buildings, carpet; City Commissioner's Department, House of Refuge room, one-half doz. chairs, desk, lounge, &c.	1,700 00
	$17,406 00

Respectfully submitted,

JAMES DONNELLY,
Superintendent City Hall.

OFFICE OF THE COMMISSIONERS OF PUBLIC SCHOOLS,

Baltimore, January 7, 1882.

JOHN A. ROBB, ESQ., *City Register:*

Sir—Estimate of amounts required by the Board of Commissioners of Public Schools for the support of the Schools for the year 1882:

For Salaries.....	white schools...	$470,000
" Rents and ground rents....	" ...	26,500
" Books and stationery.....	" ...	35,000
" Heating apparatus and its repairs.....	" ...	14,000
" Furniture.	" ...	15,000
" Fuel.....	" ...	15,000
" Repairs and cleaning.	" ...	4,500
" Incidentals, printing, supplies, &c.....	" ...	8,000
" Colored Schools, salaries and sundries		62,000
		$650,000

The deficiency of $8,000, on account of 1881, is included in the above estimate.

Very respectfully,

H. M. COWLES,
Secretary.

By order of the Committee,

OFFICE OF INSPECTOR OF BUILDINGS—CITY HALL.

Baltimore, January 6, 1882.

JOHN A. ROBB, ESQ., *City Register:*

Sir—The Inspector of Public Buildings will ask for appropriations as follows:

For the general repairs of Public School houses		$13,600 00
" general repairs of Market houses		4,150 00
" general repairs of City Hall		2,750 00
" general repairs of Court houses		3,000 00
" completion of No. 4 Public School		16,684 00
" completion of No. 2 Public School		10,992 88
" repairs of Clock at Northwestern Station		90 00
" salaries		3,000 00
" contingent expenses		300 00
		$54,566 88

Very respectfully,

JOHN S. HOGG,
Inspector of Buildings.

OFFICE OF BAYVIEW ASYLUM—CITY HALL.

Baltimore, December 31, 1881.

JOHN A. ROBB, ESQ., *City Register:*

Sir—In making up your estimate for the expenses for the various departments of the City Government for the coming fiscal year, you will please ask for an appropriation of seventy thousand dollars for the support of the Institution for the ensuing year, and fifty thousand dollars to complete the new Insane Building.

Very respectfully,

JOSEPH FRIEDENWALD,
President of the Board of Trustees
for Bayview Asylum.

REPORT

OF THE

DEPARTMENT OF FINANCE,

FOR THE YEAR 1881.

REPORT.

BALTIMORE, December 31, 1881.

To the Honorable the Members of the First and Second Branches of the City Council:

GENTLEMEN:

The Commissioners of Finance have the honor to submit for your consideration, statements in detail, exhibiting their transactions during the year, as follows, viz:

1. A summary of receipts and payments on account of the various Sinking Funds.

2. A statement of investment purchases.

3. A statement exhibiting the amount of the Redemption and the Sinking Funds, December 31, 1881.

4. A schedule of real estate and ground rents, from which income is derived.

5. A statement of the Funded Debt of the City, and of the Guarantees.

6. A balance sheet of the Sinking Funds' ledger.

7. A statement of the indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore.

8. A statement of the total liabilities of the Western Maryland Railroad Company.

The matters embraced in the foregoing are exhibited under the respective heads, in a detailed form, in the appendix to this report.

1.—Receipts and Payments.

The receipts have been derived as follows:

From cash to credit of Sinking Funds, December 31, 1880	$124,095 11	
From cash to credit of Water Loan, 1875, December 31, 1880	6,346 33	
		$130,441 44
From dividends on Baltimore and Ohio Railroad Stock	$325,000 00	
From Baltimore and Ohio Railroad Company, on account of purchase of Pittsburg and Connellsville Railroad Bonds	40,000 00	
From sale of real estate, authorized by Ordinance No. 10, of 1880	3,149 72	
		368,149 72
From interest upon investments		410,309 56
From rental of real estate		28,060 21
Amount carried forward		$936,960 93

Amount brought forward...		$936,960 93
From Western Maryland Railroad Company, for rental of Hillen Station to December 15, 1881, under contract authorized by Ordinance No. 97, 1875.....		16,000 00
(Of this amount, $2,000, being one-eighth, is set apart as a Sinking Fund.)		
From tax collections, levies for increase of funds.....		435 29
From City Passenger Railway Company.		8,820 21
From Citizens' Railway Company..		2,985 87
From York Road Railway Company.....		450 19
From North Baltimore Railway Company.		992 90
From People's Railway Company.....		1,040 32
From sales of stock..... .		260 65
From premium on $200,000 Harford Run Improvement Loan, sold at a premium 14⅓ per centum....		14,565 00
		$982,511 36

The payments have been made as follows:

For investment purchases...	$102,226 05	
For interest on Stock Debt..	514,885 00	
Amounts carried forward ..	$617,111 05	$982,511 36

Amounts brought forward...	$617,111 05	$982,511 36
For purchase of ground rents, authorized by Ordinance No. 81, of 1881.....	175,726 99	
For loan to Water Board.....	125,000 00	
For Water Stock 1875, redeemed.....	1,506 33	
For sundry expenses.....	1,812 60	
		921,156 97
Balance.....		$61,354 39
Cash in bank to credit of funds.....	$56,514 39	
Cash in bank to redeem Water Stock, outstanding	4,840 00	
		$61,354 39

2.—Investment Purchases.

This statement is submitted in obedience to Article XLII, Section 13, of the Code, and exhibits in detail the purchase of stocks and bonds amounting to $99,988.05 at an average cost of $102\frac{23}{100}$ per cent., the total amount of said purchases being.... $102,226 05

3.—The Amount of the Redemption and Sinking Funds.

Exhibiting in detail the amount and condition of the investments of the funds, as shown by the books of the Commissioners of Finance, as follows:

Productive Investments:

General Sinking Fund.....	$7,747,184 51	
Public Park Sinking Fund..	390,271 28	
Hillen Station Sinking Fund	12,830 66	
		$8,150,286 45

Other Productive Investments:

Real Estate, as shown in Statement No. 4, from which an annual rental of $7,746.76 is derived.		
This sum, capitalized at 6 per cent., is worth.....	$129,112 00	
550 shares stock Baltimore and Reisterstown Turnpike Company.....	2,200 00	
625 shares stock Baltimore and Yorktown Turnpike Company.....	3,125 00	
120 shares stock Baltimore and Havre de Grace Turnpike Company.....	3,000 00	
137 shares stock Frederick Turnpike Company.	206 00	
		137,643 00
		$8,287,929 45

Unproductive Investments:

Western Maryland Railroad Co., 4,000 shares stock.....	$200,000 00	
Amounts carried forward....	$200,000 00	$8,287,929 45

Amounts brought forward...	$200,000 00	$8,287,929 45
Western Maryland Railroad Co., mortgage to secure endorsements	1,175,000 00	
Western Maryland Railroad Co., loan of City Stock....	1,000,000 00	
Western Maryland Railroad Co., accrued interest advanced upon bonds guaranteed and stock loaned..	1,381,500 00	
Baltimore Susquehanna and Tidewater Canal Company Stock, 7,600 shares.....	380,000 00	
Baltimore and Hall Springs Railway Company Stock, 714 shares.....	14,280 00	
Valley Railroad Company of Virginia Stock.....	1,000,000 00	
		5,150,780 00
Total Productive and Unproductive Investments ..		$13,438,709 45

INCREASE OF SINKING FUNDS.

The increase of the funds from December 31, 1880, to December 31, 1881, amounting to.....		$290,528 67
Was derived thus:		
From interest upon investments.	$409,814 56	
Amounts carried forward....	$409,814 56	$290,528 67

Amounts brought forward...		$409,814 56	$290,528 67
From dividends on Baltimore and Ohio Railroad Stock.....		325,000 00	
From sales of real estate...		3,149 72	
From rental of real estate...		28,060 21	
From rental of Hillen Station.....		14,000 00	
From premium on $200,000 Harford Run Improvement Loan		14,565 00	
From tax collections.....		435 29	
From City Passenger Railway Company.....		8,820 21	
From Citizens' Railway Company.....		2,985 87	
From York Road Railway Company.....		150 19	
From North Baltimore Railway Company.....		992 90	
From People's Railway Company.....		1,040 32	
		$809,314 27	
Deduct:			
Am't paid Mayor and City Council for interest on Stock Debt.	$325,000 00		
For interest on One Million Loan.....	60,000 00		
For interest on West. Md. R. R. Loan.....	60,000 00		
For interest on West. Md. R. R. Bonds.....	69,885 00		
For sundry expenses.....	1,812 60		
Loss in purchase of stocks.....	2,088 00		
		518,785 60	
			$290,528 67

And disbursed and held as follows:			
For investment purchases..		$ 99,988 05	
For ground rents purchased.		175,726 99	
For amount loaned Water Board.....		125,000 00	
For loss in purchase of stock for Hillen Station Sinking Fund.....		150 00	
		$400,865 04	
Less amount purchases belonging to 1880.. .	$164,095 11		
Less sales of stock.....	260 65		
Less amount received for Hillen Station Sinking Fund.	2,495 00		
		166,850 76	
		$234,014 28	
Amount on hand to credit of funds.		56,514 39	
			$290,528 67

4.—Real Estate and Ground Rents.

The schedule of real estate and ground rents presented in this form for convenience of reference, embraces only so much of the city property as is in control and shown upon the books of this Board, and from which income is derived by rentals.

The income derived from the public wharves and other valuable property, being applied to current ex-

penditures, does not appear in these accounts. Baltimore City Code, Section 14, Article XLII, page 717.

5.—The Funded Debt and Guarantees

Amount to a sum total of		$36,386,191 73
At date of last annual report, December 31, 1880, these issues amounted to		36,092,298 06
Amount of increase during the year		$293,893 67
Thus:		
Amount of Five Per Cent. Jones' Falls Loan, 1900, issued	$ 40,400 00	
Amount of Four Per Cent. Harford Run Improvement Loan issued	210,000 00	
Amount of Paving Loan, 1920, issued	45,000 00	
	$295,400 00	
Less amount of Water Loan, 1875, redeemed during the year	1,506 33	
		$293,893 67

Increase of Funded Debt Authorized.

The Jones' Falls Loan, by Ordinance No. 12 of 1870	$920,000 00
The Paving Loan of 1920, by Ordinance No. 131 of 1880	455,000 00
	$1,375,000 00

7.—THE FINANCIAL CONDITION OF THE CORPORATION.

Amount of Funded Debt December 31, 1881.....	$34,894,191 73	
Amount of Guarantee Liabilities December 31, 1881. ..	1,492,000 00	
		$36,386,191 73
Less amount of cash in bank set aside for the redemption of Water Stock, 1875, now outstanding.....		4,840 00
		$36,381,351 73

Of this amount interest is provided or paid as follows:

The Baltimore and Ohio Railroad Company, upon..	$5,000,000 00	
The City Passenger Railway Companies, upon.....	555,566 25	
The Water Board, from income, upon.....	9,000,000 00	
The Union Railroad Company, upon.....	117,000 00	
The Western Maryland Railroad Company, upon.....	200,000 00	
		14,872,566 25
		$21,508,785 48

Productive Investments:

The Baltimore and Ohio Railroad Stock, 32,500 shares, at $180 per share.	$5,850,000 00	
Amounts carried forward....	$5,850,000 00	$21,508,785 48

Amounts brought forward...		$5,850,000 00	$21,508,785 48
Baltimore and Reisterstown Turnpike Company Stock, 550 shares.....		2,200 00	
Baltimore and Yorktown Turnpike Company Stock, 625 shares.....		3,125 00	
Frederick Turnpike Company Stock, 137 shares.....		206 00	
Baltimore and Havre de Grace Turnpike Company Stock, 120 shares.....		3,000 00	
The Sinking Funds, value....		8,150,286 45	
The real estate, annual rental...	$ 7,746 76		
The wharf property, annual rental.....	25,000 00		
The market-houses, annual income.....	45,000 00		
	$77,746 76		
This provides interest upon.		1,295,779 00	
			15,304,596 45
Balance.....			$6,204,189 03
Unproductive Investments:			
Western Maryland Railroad Company, 4,000 shares stock.....		$ 200,000 00	
Amount carried forward.....		$ 200,000 00	

Amount brought forward....	$ 200,000 00	
Western Maryland Railroad Company, mortgages to secure endorsements and loan of City Stock.....	2,175,000 00	
Western Maryland Railroad Company, accrued interest advanced.....	1,381,500 00	
Baltimore, Susquehanna and Tidewater Canal Company Stock, 7,600 shares.....	380,000 00	
Baltimore and Hall Springs Railway Company Stock, 714 shares.....	14,280 00	
Valley Railroad Company of Virginia Stock	1,000,000 00	
		$5,150,780 00

This statement does not embrace any items connected with current receipts and expenditures, but refers only to the stock and bond liabilities of the Corporation, and to investments specially set apart for redemption of the same.

The accounts now submitted for your consideration exhibit in detail all the transactions of the past year. They show the gross receipts from all sources to have been..... $982,511 36

The disbursements have been as follows:

For investment purchases. (See Statement No. 2)..... .	$102,226 05	
Amounts carried forward....	$102,226 05	$982,511 36

Amounts brought forward...	$102,226 05	$982,511 36
For interest paid upon the Funded Debt of the city..	514,885 00	
For purchase of ground rents, authorized by Ordinance No. 81, of 1881.....	175,726 99	
For loan to Water Board.....	125,000 00	
For Water Stock, 1875, redeemed	1,506 33	
For sundry expenses paid during the year.....	1,812 60	
Total disbursements.....		921,156 97
Balance, being amount cash in bank to credit of funds, December 31, 1881.....		$61,354 39

This sum is held for payment of interest due January 1, 1882.

The present value of the Sinking Funds' investments, represented in Statement 3, Appendix, is shown to be.....	$8,150,286 45
The value of the same on December 31, 1880, was.....	7,859,757 78
Thus showing an increase during the year of..... ...., ...	$290,528 67
The increase of these funds during 1880, as shown by our last annual report, was.	239,739 76
And thus the excess of increase for the past over the preceding year is shown to be.....	$50,788 91

A sale of $200,000 City Stock (the 4 per cent. Harford Run Improvement Loan,) was made by public advertisement, inviting competitive bids on April 12, 1881, at a premium of $14,565.

And sales to the Sinking Funds were made as follows:

Of the Harford Run Improvement Loan March 1, $9,000; April 1, $1,000.

Of the Paving Loan, 1920, June 30, $5,000; August 23, $10,000; September 14, $10,000; September 28, $20,000.

Of the Jones' Falls 5 per cent. loan, October 25, $40,400.

Respectfully submitted,

WM. PINKNEY WHYTE, *Chairman.*
JAMES SLOAN, JR.,
ROBERT T. BALDWIN,
Commissioners of Finance.

JOHN A. ROBB.
Clerk to Commissioners of Finance.

APPENDIX.

STATEMENT

Dr. *The Commissioners of Finance in account with*

To balance of cash in bank to credit of Sinking Funds.....	$124,095 11	
To balance of cash in bank to credit of Water Loan of 1875	6,346 33	
		$130,441 44
To General Sinking Fund:		
Received for fractions of stock sold.....	$ 260 65	
Received from rental of real estate.....	28,060 21	
Received from rental of Hillen Station	14,000 00	
Received for interest on stock and investments.....	390,086 56	
Received for account of sale of Pittsburg and Connellsville Railroad Bonds	40,000 00	
Received for premium on $200,000 Harford Run Improvement Loan.....	14,565 00	
Received for sale of real estate	3,149 72	
Received of Mayor and City Council for tax levy.....	435 29	
		490,557 43
To Public Park Sinking Fund:		
Received for interest on stock.	$19,728 00	
Received from City Passenger Railway Company.....	8,820 21	
Amounts carried forward..	$28,548 21	$620,998 87

No. 1.

the Mayor and City Council of Baltimore. Cr.

By General Sinking Fund:		
Purchased fractions of City Stock	$ 388 05	
Purchased $200 of City Six Per Cent. Stock	238 00	
Purchased $11,400 of City Five Per Cent. Stock	11,950 00	
Purchased $46,000 of City Four Per Cent. Stock	46,000 00	
Purchased redeemable ground rents, as authorized by Ordinance No. 81, of 1881	175,726 99	
Paid one year's interest on One Million Loan, 1886	60,000 00	
Paid one year's interest on Western Maryland Railroad Loan, 1902	60,000 00	
Paid interest on Western Maryland Railroad Guaranteed Bonds	69,885 00	
Paid sundry expenses	1,812 60	
		$426,000 64
By Public Park Sinking Fund:		
Purchased $30,000 City Five Per Cent. Stock	$31,500 00	
Purchased $9,000 City Four Per Cent. Stock	9,000 00	
		40,500 00
Amount carried forward...		$466,500 64

STATEMENT

Dr. *The Commissioners of Finance in account with*		
Amounts brought forward.	$28,548 21	$620,998 87
Received from Citizens Railway Company	2,985 87	
Received from York Road Railway Company	450 19	
Received from North Baltimore Railway Company	992 90	
Received from People's Railway Company	1,040 32	
		34,017 49
To Hillen Station Sinking Fund:		
Received for interest on stock.	$ 495 00	
Received from Western Maryland Railroad Company.	2,000 00	
		2,495 00
To Baltimore and Ohio Railroad Dividends:		
Received for dividends on stock, 10 per cent		325,000 00
		$982,511 36

No. 1.

the Mayor and City Council of Baltimore. Cr.

Amount brought forward.		$466,500 64
By Hillen Station Sinking Fund:		
Purchased $3,000 of City Five Per Cent. Stock.....		3,150 00
By Baltimore and Ohio Railroad Dividends:		
Paid Mayor and City Council for interest on stock debt....		325,000 00
By Loans:		
Water Board, for note of Mayor and City Council.....		125,000 00
By Redemption of Water Loan, 1875:		
Paid for $1,506.33 Water Stock, 1875, redeemed.....		1,506 33
By balance, cash in bank, to pay interest, January 1, 1882.	$56,514 39	
By balance, cash in bank, to redeem Water Stock, 1875....	4,840 00	
		61,354 39
		$982,511 36

STATEMENT No. 2.

"The Commissioners of Finance shall invest in City Stock all moneys in their hands, or to their credit in bank, received for the sale or rent of city property pledged for the redemption of the public debt; and shall also invest all moneys that may hereafter be received from the above-mentioned sources, as well as all interest accruing thereon from time to time, and report to the City Council the amount purchased, and the dates and prices at which they were purchased."—Article XLII, Baltimore City Code, Section 13.

DATE.	SINKING FUND.	AMOUNT PURCHASED	DESCRIPTION OF STOCK.	AMOUNT PAID.
1881				
Mar. 1	Public Park Sinking Fund.	$9,000 00	Harford Run Improv't Loan	$ 9,000 00
Apl. 1	General Sinking Fund.....	1,000 00	" " "	1,000 00
" " 2	" "	200 00	Five Million Loan, 1890. ..	238 00
Ju'e 30	" "	5,000 00	Paving Loan, 1920.....	5,000 00
Aug 23	" "	10,000 00	" " "	10,000 00
Sep. 14	" "	10,000 00	" " "	10,000 00
" 28	" "	20,000 00	" " "	20,000 00
Oct. 25	" "	7,400 00	5 % Jones' Falls Loan, 1900.	7,770 00
" 25	Public Park "	30,000 00	" " " "	31,500 00
" 25	Hillen Station "	3,000 00	" " " "	3,150 00
" 31	General "	4,000 00	Consolidated Loan, 1885.....	4,180 00
Dec. 31	" "	388 05	Fractions of Stock at par....	388 05
		$99,988 05		$102,226 05

RECAPITULATION.

Date.	Sinking Fund.	Amount Purchased.	Description of Stock.	Amount Paid.
1881				
Dec. 31	General Sinking Fund.....	$ 200 00	Six Per Cent. Stock	$ 238 00
" 31	" "	11,400 00	Five " "	11,950 00
" 31	" "	46,000 00	Four " "	46,000 00
" 31	" "	388 05	Fractions of City Stock	388 05
" 31	Public Park "	30,000 00	Five Per Cent. Stock.....	31,500 00
" 31	" "	9,000 00	Four " "	9,000 00
" 31	Hillen Station "	3,000 00	Five " "	3,150 00
		$99,988 05		$102,226 05

STATEMENT No. 3.

Condition of Sinking Funds December 31, 1881.

General Sinking Fund:

Consolidated Loan, 1890, 6 per cent. stock	$82,234 35
Five Million Loan, 1890, 6 per cent. stock	122,867 34
City Hall Loan, 1884, 6 per cent. stock	300,300 00
City Hall Loan, 1900, 6 per cent. stock	56,600 00
City Hall Loan, 1902, 6 per cent. stock	13,400 00
Funding Loan, 1900, 6 per cent. stock	134,600 00
One Million Loan, 1886, 6 per cent. stock	18,986 84
Western Maryland Railroad Loan, 1902, 6 per cent. stock	20,800 00
Park Improvement Loan, 1895, 6 per cent. stock	72,158 80
Public Park Loan, 1890, 6 per cent. stock	10,509 68
Consolidated Loan, 1893, 6 per cent. stock	1,250,341 38
Exempt Loan, 1893, 6 per cent. stock	353 87
Amount carried forward	$2,083,152 26

Amount brought forward....	$2,083,152 26	
Valley Railroad Loan, 1886, 6 per cent. stock.....	636,600 00	
Jones' Falls Loan, 1900, 6 per cent. stock.....	5,100 00	
		$2,724,852 26
Jones' Falls Loan, 1900, 5 per cent. stock.....	$262,500 00	
Consolidated Loan, 1885, 5 per cent. stock.....	431,251 47	
Water Loan, 1894, 5 per cent. stock.....	1,729,800 00	
Water Loan, 1916, 5 per cent. stock.....	7,400 00	
Funding Loan, 1916, 5 per cent. stock.....	223,500 00	
		2,654,451 47
Harford Run Improvement Loan, 1920, 4 per cent. stock.....	$36,000 00	
Paving Loan, 1920, 4 per cent. stock.....	45,000 00	
		81,000 00
Union Railroad Guaranteed Bonds.....		87,500 00
Western Maryland Railroad Guaranteed Bonds..	$423,500 00	
Western Maryland Railroad Second Preferred Bonds...	178,500 00	
Western Maryland Railroad Funding Certificate.....	225,930 00	
Coupons Western Maryland Railroad First Mortgage Unendorsed Bonds.....	71,742 00	
		899,672 00
Amount carried forward.....		$6,447,475 73

Amount brought forward....		$6,447,475 73
Amount of obligation of the Baltimore and Ohio Railroad Company received for the claim of the city against the Pittsburg and Connellsville Railroad, as authorized by Ordinance No. 47, of 1875.....	$1,000,000 00	
Less payment on account of the same made to the city by the Baltimore and Ohio Railroad Company.....	240,000 00	
		760,000 00
Hillen Street Station property.....	$200,000 00	
Less amount of Hillen Street Station Sinking Fund, set apart for the repayment of the amount of the cost thereof.....	12,830 66	
		187,169 34
Ground rents, purchase of which was authorized by Ordinance No. 81, of 1881, cost.....		175,726 99
Note of Mayor and City Council to secure loan to Water Board.....	$125,000 00	
Cash.....	51,812 45	
		176,812 45
		$7,747,184 51

Public Park Sinking Fund:

Consolidated Loan, 1890, 6 per cent. stock.	$ 200 00	
City Hall Loan, 1884, 6 per cent. stock	18,900 00	
City Hall Loan, 1900, 6 per cent. stock	8,000 00	
Funding Loan, 1900, 6 per cent. stock	1,200 00	
One Million Loan, 1886, 6 per cent. stock	1,200 00	
Park Improvement Loan, 1895, 6 per cent. stock	9,600 00	
Public Park Loan, 1890, 6 per cent. stock	4,300 00	
Consolidated Loan, 1893, 6 per cent. stock	132,800 00	
Valley Railroad Loan, 1886, 6 per cent. stock	29,600 00	
		$205,800 00
Jones' Falls Loan, 1900, 5 per cent. stock	$56,500 00	
Water Loan, 1894, 5 per cent. stock	93,500 00	
Funding Loan, 1916, 5 per cent. stock	16,000 00	
		166,000 00
Harford Run Improvement Loan, 4 per cent. stock		14,000 00
Cash		4,471 28
		$390,271 28

Hillen Station Sinking Fund:

Jones' Falls Loan, 1900, 5 per cent. stock	$6,000 00	
Water Loan, 1894, 5 per cent. stock	4,700 00	
Funding Loan, 1916, 5 per cent. stock	1,900 00	
		$12,600 00
Cash		230 66
		$12,830 66

Recapitulation of the Condition of Sinking Funds December 31, 1881.

General Sinking Fund	$7,747,184 51
Public Park Sinking Fund	390,271 28
Hillen Station Sinking Fund	12,830 66
	$8,150,286 45

STATEMENT No. 4.

A Schedule of Real Estate and Ground Rents upon the books of the Commissioners of Finance.

LESSEE.	LOCATION OF LOTS.	ANNUAL RENTAL.
Swain & Banks	Lots 9, 10, 11, 12, President street	$452 25
Calvert Sugar Refinery	Lots 24, 25, 26, 27, 28, 29, 30, south side Block street	721 88
C. S. Maltby	42 feet, south side Block street	189 00
Joseph Kaufman	Lots 1, 2, 3, 4, 5, 6, Brown street	150 00
William Groscup	Lot 7, Brown street	33 60
C. L. Frank	Lot 8, "	19 20
Joseph Baumgarten	Lot 9, "	26 32
William Kleinhenn	Lot 10, "	26 32
Anton Young	Lots 11, 12, "	52 64
Charles N. Oehm	Lot 13, "	26 32
H. Klausmyer	Lot 14, "	25 48
Catharine Karch	Lot 15, "	26 32
N. Thomas & Co.	Lots 17, 18, "	52 64
Frederick Kull	Lot 19, "	19 20
George Wimmer	Lot 20, "	20 32
E. Snellenberg	Lots 21, 22, "	54 49
J. A. G. Goetz	Lot 23, "	29 60
August Pfeil	Lot 25, "	29 60

Francis Schott.	Lot 29, Brown street	26 32
August Pfeil	Lot southwest corner Light and Brown streets	78 06
George Hickman	Lot on Run alley	52 00
Wilson & Hunting	Lots 5, 6, 7, 8, west side President street	502 50
John G. Huck	Lot on Light street	75 70
Platt & Co	Fish-house property, south side of the basin	1,457 00
Baltimore and Philadelphia Steamboat Company	200 feet on Light street wharf	3,600 00
		$7,746 76

Ground Rents purchased by authority of Ordinance 81, of 1881.

Comm'rs of Public Schools.	Lot corner Hollins and Monroe streets	$750 00	
" "	Lot corner Howard and Little Montgomery streets	120 00	
" "	Lot corner Penna. ave. and Robert st.	86 00	
" "	Lot on Park ave., near Preston st.	549 00	
" "	Lot on Waesche st., near Fremont st.	480 00	
Mayor and City Council	Lot corner Monument and Chester sts.	1,200 00	
" "	Collington Square	960 00	
" "	Perkins Spring Square	2,052 00	
" "	Riverside Park	3,770 62	
	Purchased at a cost of $175,726.99		9,967 62
			$17,714 38

STATEMENT No. 5.

Statement of Funded Debt December 31st, 1881.

LOAN.	RATE.	WHEN PAYABLE.	AMOUNT.
Consolidated	5 per cent.	At pleasure after the year 1885	$1,029,061 54
"	6 "	" " July 1, 1890	7,306,546 22
Public Park	6 "	" " Sept. 1, 1890	555,566 25
Exempt	6 "	" " Sept. 1, 1893	410,353 87
Water	6 "	" " July 1, 1894	263,000 00
"	5 "	" " July 1, 1894	3,737,000 00
Funding	6 "	" " July 1, 1900	800,000 00
"	5 "	" " July 1, 1916	1,000,000 00
Water	5 "	" " July 1, 1916	5,000,000 00
Harford Run Improv't	4 "	" " Jan. 1, 1920	250,000 00
Paving Loan	4 "	" " Nov. 1, 1920	45,000 00
City Hall	6 "	July 1, 1884	1,000,000 00
One Million	6 "	January 1, 1886	1,000,000 00
Valley Railroad	6 "	October 31, 1886	1,015,300 00
Five Million Loan	6 "	January 1, 1890	5,000,000 00
Consolidated	6 "	September 1, 1893	2,211,068 05
Park Improvement	6 "	January 1, 1895	185,723 80
City Hall	6 "	April 15, 1900	1,000,000 00
Jones' Falls	6 "	April 9, 1900	800,000 00
"	5 "	April 9, 1900	780,000 00
Western Maryland R. R.	6 "	January 1, 1902	1,000,000 00
City Hall	6 "	March 7, 1902	500,000 00
Water	6 "	No interest allowed	4,840 00
Overdue Stock	6 "	" "	732 00
			$34,894,191 73

STATEMENT No. 5—Concluded.

Statement of Guaranteed Debt December 31, 1881.

Bonds of the Western Maryland Railroad Company:		
First Mortgage to mature January 1, 1890	$200,000 00	
Second Mortgage to mature January 1, 1890	300,000 00	
Third mortgage to mature January 1, 1900	875,000 00	
		$1,375,000 00
Of which the Register of the City holds in the Western Maryland Railroad Sinking Fund $167,000.00.		
Bonds of the Union Railroad Company to mature January 1, 1895		117,000 00
Of which the Commissioners of Finance hold in the General Sinking Fund, $87,500.00		
Total Guaranteed Debt		$1,492,000 00

STATEMENT No. 6.

Balance Sheet of the Sinking Funds' Ledger December 31, 1881.

	Dr.	Cr.
General Sinking Fund		$176,812 45
Public Park Sinking Fund		4,471 28
Hillen-St. Station Sinking Fund.		230 66
Loans	125,000 00	
Redemption of Water Loan, 1875.		4,840 00
Cash	61,354 39	
	$186,354 39	$186,354 39

STATEMENT No. 7.

Statement of the Indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore, December 31, 1881.

First mortgage endorsement		$200,000 00
Second mortgage endorsement	$300,000 00	
Interest thereon to January 1, 1882	234,000 00	
		534,000 00
Second Preferred Mortgage Bonds held by Commissioners of Finance		178,500 00
Third mortgage endorsement	$875,000 00	
Interest thereon to January 1, 1882	577,500 00	
		1,452,500 00
Fourth mortgage, to secure loan of city stock	$1,000,000 00	
Interest thereon to January 1, 1882	570,000 00	
		1,570,000 00
Funding certificate, being amount of matured coupons of First Mortgage Bonds and Second Preferred Mortgage Bonds, funded as per Ordinance No. 22, approved April 3, 1879	$225,930 00	
Interest thereon from July 1, 1881, to January 1, 1882.	6,777 90	
		232,707 90
Amount carried forward		$4,167,707 90

Amount brought forward. ..		$4,167,707 90
Coupons from unendorsed bonds of first mortgage, held by Commissioners of Finance.	$71,742 00	
Interest due thereon to January 1, 1882.....	26,466 49	
		98,208 49
Total.....		$4,265,916 39
Less value of Western Maryland Railroad Sinking Fund.....		204,159 09
		$4,061,757 30

STATEMENT No. 8.

A statement of the total liabilities of the Western Maryland Railroad Company, December 31, 1881.

First and Preferred Second Mortgages, in hands of individuals:		
First Mortgage	$400,000 00	
Preferred Second Mortgage.	421,500 00	
Funded Coupons	318,696 00	
		$1,140,196 00
City's interest in and liability on account of First and Preferred Second Mortgage:		
First Mortgage endorsement	$200,000 00	
Preferred Second Mortgage Bonds purchased	178,500 00	
First Mortgage Coupons (not funded)	71,742 00	
Interest on above Coupons	26,466 49	
Funding Certificate	225,930 00	
Interest on Funding Certificate from July 1, 1881	6,777 90	
	$709,416 39	
Less Sinking Fund in hands of Register of the City	204,159 09	
		505,257 30
Total First and Preferred Second		$1,645,453 30

Second Mortgage:

City's endorsement	$300,000 00	
Accrued interest	234,000 00	
		$534,000 00
Washington County endorsement	$300,000 00	
Accrued interest	234,000 00	
		534,000 00
		$1,068,000 00

Third Mortgage:

City's endorsement	$875,000 00	
Accrued interest	577,500 00	
		$1,452,500 00

Fourth Mortgage:

City Stock, loaned	$1,000,000 00	
Accrued interest	570,000 00	
		$1,570,000 00

RECAPITULATION.

First and Preferred Second (Individuals)		$1,140,196 00
First and Preferred Second (City)		505,257 30
Second Mortgage (City)		534,000 00
" " (Washington County		534,000 00
Third Mortgage (City)		1,452,500 00
Fourth " (City)		1,570,000 00
Total		$5,735,953 30
Deduct in hands of individuals and Washington County		1,674,196 00
City's interest		$4,061,757 30
Capital Stock:		
Owned by the City	$200,000 00	
" Washington Co.	150,000 00	
" Individuals	332,250 00	
		$682,250 00

STOCK DEBT.

Name of Issue	Rate per Annum.	When Payable.	Where Payable.
Five Million Loan.1890	6 per cent.	Jan., April, July and Oct.	Nat. Farm. & Plant. Bank.
Consolidated Loan, 1890	6 "	" "	" "
City Hall Loan. . .1884	6 "	" "	" "
" " 1900	6 "	" "	" "
" " 1902	6 "	" "	" "
Funding Loan.....1900	6 "	" "	" "
Consolidated Loan,1885	5 "	" "	" "
Valley R. R. Loan.1886	6 "	" "	National Mechanics' Bank.
Park Imp. Loan....1895	6 "	" "	" "
Public Park Loan.1890	6 "	Mar., June, Sep. and Dec.	" "
Jones' Fall Loan...1900	6 "	Feb., May, Aug. and Nov.	" "
" " .1900	5 "	" "	" "
One Million Loan.1886	6 "	January and July.....	" "
W. Md. R. R. Loan.1902	6 "	" "	" "
Water Loan. 1916	5 "	May and November.....	" "
" 1894	5 "	" "	" "
Funding Loan.....1916	5 "	" "	" "
Exempt Loan.....1893	6 "	March and September....	" "
Consolidated Loan,1893	6 "	" " ...	" "
Harford Run Imp.Loan	4 "	January and July.....	" "
Water Loan.....1894	6 "	May and November.....	City Register's Office.....
Paving Loan.....1920	4 "	" "	" "

GUARANTEES.

Name of Issue.	Rate per Annum.	When Payable.	Where Payable.
Western Maryland R. R Company's Bonds. .	6 per cent.	January and July.	National Mechanics' Bank.
Union Railroad Company's Bonds.....	6 "	" "	Franklin Bank.

ANNUAL REPORT

OF THE

CITY COMPTROLLER

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881

REPORT.

DEPARTMENT OF THE CITY COMPTROLLER,

Baltimore, January 2, 1882.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I have the honor of presenting herewith the report of this department for the fiscal year terminating with the 31st of December, 1881.

The following table is an exhibit of the receipts and disbursements of the city from the 1st day of January, 1881, to the 31st day of December in the same year, both dates inclusive. Deduct from the aggregate on the debit side of the account of $7,219,060.57 the cash balance embraced therein that was brought forward from 1880, to wit: $322,517.62, and it shows the actual receipts of the year to have been $6,896,542.95. Deduct from the aggregate on the credit side of the account the cash balance in the treasury on the 31st day of December, 1881, and it shows the gross disbursements for the year to have been $6,875,107.31. All of the

items in these accounts are not *revenue* and *expenses* proper. The items of "temporary loans" and the receipt of interest on account of the "Five Million Loan," which materially contribute to make up the aggregates, cannot be classed as *revenue proper;* nor are the payments made on those accounts *expenses proper*. They are receipts and disbursements respectively.

STATEMENT OF RECEIPTS.

From the City Collector, on account of the tax levy for 1881.....	$2,533,152 48		
" the City Collector, on account of taxes in arrears.....	1,103,972 31		
" the City Collector, on account of interest on taxes in arrears.	66,232 08		
" the City Collector, on account of opening, closing, paving and widening streets and alleys.....	165,229 22		
		$3,868,686	09
" ground rent due by sundry parties..		807	50
" sundry parties for injury to street lamps..		93	42
" the inspection of gas meters.....		3,133	00
" wharfage by Harbor Masters.....		24,127	19
" auctioneers, for State tax on sales ..		10,198	31
" the Commissioner of Health for the sale of refuse.....		1,757	76
Amount carried forward.....		$3,908,803	27

Amount brought forward.....	$3,908,803	27
From Marine Hospital fees.....	8,869	24
" the State of Maryland, for the city's proportion of Public School tax, and from the Secretary of the School Board, for the use of books, &c	198,157	66
" the City Librarian, for furnishing copies of papers in his office.....		70
" the sale of stalls in markets.....	269	10
" market rents and licenses..	48,788	72
" rent of public halls.....	1,585	00
" the Jail Visitors, for board of U. S. prisoners, hire of prisoners, &c. ..	3,093	55
" the Mayor, for one day's services to ex-officio Mayor Veazey.....	7	00
" licenses for wagons, carts, billiards, dogs, &c.....	45,899	21
" sale of certificates of health and sealing papers.....	725	80
" the sale of property owned by the city.....	3,199	72
" passenger railway companies and Park Board for Druid Hill and Patterson Parks.....	93,582	62
" Park Board for Riverside Park.....	6	30
" " " Federal Hill Park..	11	50
" the Commissioners of Harlem Square for rent of saloon.....	100	00
" the Commissioners of Eastern Fountain, on account of sale of railing	480	00
Amount carried forward.....	$4,313,579	39

Amount brought forward	$4,313,579	39
From the City Commissioner for permits for vaults and areas	1,224	15
" the City Commissioner for iron plates	12	16
" the City Commissioner for opening sewers	2,080	65
" the City Commissioner for account of repairs of paved streets	198	93
" the City Commissioner for account of improvement of Jones' Falls	621	00
" the sale of Jones' Falls Improvement Stock, 1900	42,420	00
" the Sheriff, the city's proportion of fines	647	75
" judgments and suits	190	05
" intestate estates	862	39
" passenger railway companies for Park Sinking Fund	14,289	49
" Baltimore and Ohio Railroad Company for interest on the $5,000,000 loan	300,000	00
" Water Board, interest on the Water, 1894 and 1916 Loans	452,630	00
" Park Board, interest on the Public Park Loan	33,333	96
" Commissioners of Finance, dividend on the Baltimore and Ohio Railroad Company's Stock	325,000	00
" City Commissioner, for account of advertising	21	00
Amount carried forward	$5,487,110	92

Amount brought forward.....	$5,487,110	92
From James Pollard, account of refunded taxes	14	81
" tax sales, for the redemption of the property previously sold.....	10,434	40
" the Trustees of Bayview Asylum, for board of inmates and resident students, &c.....	1,649	46
" Water Board, for rents, &c.....	739,237	00
" Fire Commissioners, for sale of refuse, &c.....	150	25
" temporary loans	345,000	00
" Harbor Board, for maintenance of ice-boat Latrobe.....	500	00
" permits and advertising, for erecting sheds, signs, &c.....	5,774	06
" dividends from Turnpike Companies.....	424	25
" the Pound Master, for the sale of dogs	147	15
" sundry parties, placed to credit of Conscience Fund.....	2,514	94
" sale of material on Chatsworth Run Sewer	495	00
" City Commissioner, for account of Fremont Street sewer.	4	25
" the sale of Harford Run improvement stock.....	257,665	00
" the City Librarian, for sale of City Codes	25	00
" ex-Mayor Latrobe, account of the Sesqui-Centennial Celebration....	50	53
Amount carried forward.....	$6,851,197	02

Amount brought forward	$6,851,197 02
From sales of Paving Loan of 1920	45,000 00
" City Commissioner, account of Harford Run Sewer	100 93
" sale of ground on the opening of Biddle street	100 00
" sale of material on the opening of Broadway	145 00
Cash in hands of City Register January 1, 1881	322,517 62
	$7,219,060 57

STATEMENT OF DISBURSEMENTS.

For salaries and incidental expenses of the City Council	$ 53,283 02
" general expense account	1,596 73
" State and City elections	7,080 74
" the expenses of the Supervisors of Elections	1,842 99
" the expenses of the Court House and Record Office	4,343 52
" the expenses of Old Masonic Hall	2,938 78
" salaries of lamplighters	43,680 00
" salaries of city officers	67,020 00
" ground rents due by the city	2,950 39
" General Superintendent of Lamps Department	176,530 19
" lamps, pillars and lamps	22,534 45
" commissions and incidentals of the Harbor Master	7,445 89
Amount carried forward	$391,246 70

	Amount brought forward	$391,246 70
For	Health Department	34,049 42
"	cleaning streets	200,023 51
"	nuisance	8,600 00
"	Marine Hospital	15,494 24
"	post-mortems	300 00
"	special appropriations	12,687 34
"	public schools	622,989 85
"	Commissioners for Opening Streets	129 41
"	Superintendent of the City Hall	15,900 19
"	City Librarian	6,998 45
"	cleaning and repairs of markets	5,914 52
"	cleaning and repairs of Hollins street and Broadway halls	123 70
"	expenses of the Jail	56,164 12
"	expenses of the Mayor's office	2,561 75
"	general license	1,308 82
"	sale of city property	3,151 72
"	insurance of Bayview Asylum	855 00
"	insurance of Baltimore City College and Female High Schools	1,720 00
"	Druid Hill and Patterson Parks	100,431 07
"	Riverside Park	8,772 32
"	account of public squares	26,203 18
"	City Commissioner's Department	9,504 00
"	repairs of sewers	13,799 98
"	repairs of paved streets	69,144 90
'	repairs of unpaved streets	1,630 78
"	repairs of bridges	11,617 15
"	repairs of cross streets	5,608 30
	Amount carried forward	$1,626,930 42

	Amount brought forward	$1,626,930 42
For	flag and stepping-stones	5,995 96
"	iron plates	3,874 71
"	repaving streets	931 59
"	paving city property	468 04
"	Harford Run Sewer	7,371 98
"	improvement of Jones' Falls	229,384 99
"	cleaning streets, special	9,997 65
"	Superior Court	14,332 22
"	Criminal Court	58,465 26
"	Common Pleas Court	13,959 11
"	Circuit Court	8,363 30
"	Orphans' Court	7,676 46
"	Supreme Bench	2,650 00
"	removed cases	4,346 28
"	judgments and suits	24,410 52
"	salaries of magistrates and substitutes	12,960 00
"	coroners	2,400 00
"	expenses of registration	13,554 04
"	the Police Department	584,846 50
"	the City Hall Sinking Fund	290 21
"	account of intestate estates	20 00
"	Park Sinking Fund	14,289 49
"	Funded Debt of 1868	145 08
"	interest on the stock debt	1,842,741 79
"	interest on loans, &c., and discount on taxes	127,226 03
"	public printing	1,507 91
"	refunded taxes	3,803 24
"	tax sales	7,895 33
	Amount carried forward	$4,630,838 11

Amount brought forward	$4,630,838	11
For City Collector, expenses of office, and Appeal Tax Court	44,197	07
" transportation to House of Correction	143	50
" carrying poor to homes	641	50
" Bayview Asylum	64,999	61
" House of Refuge	17,263	83
" House of Reformation and Instruction for Colored Children	13,980	00
" Dispensaries	4,400	00
" St. Mary's Industrial School	17,898	25
" Mount Hope Retreat	13,000	00
" deaf and dumb	496	24
" University of Maryland	4,230	49
" Washington University	4,236	58
" widows and orphans, war of 1812	300	00
" repairs to clock on Northwestern Station House	100	00
" Old Defenders, war of 1812	300	00
" repairs to Belair market	3,875	00
" Maryland Hospital for the Insane	19,862	31
" iceboat Maryland	10,000	00
" Water Board	723,247	54
" Permanent Water Supply	105,741	98
" expenses, &c., of the Fire Department	193,796	98
" building Public School No. 2	6,877	66
" temporary loans	260,000	00
" Harbor Board	66,463	39
" iceboat F. C. Latrobe	12,499	02
" repairs of wharves	2,460	24
Amount carried forward	$6,221,849	30

	Amount brought forward	$6,221,849 30
For	Inspector of Buildings	3,186 39
"	drinking fountain, corner Franklin and Fulton streets	100 00
"	permits for sheds, signs, &c	961 72
"	repairs of public schools	33,440 20
"	repairs of city property	3,401 01
"	ringing mechanics' bells	200 00
"	State tax on city loans	10,318 92
"	the Dog Pound	1,092 30
"	Sarah Ann Fowler's estate	49 95
"	condemnation of Federal Hill	2,745 12
"	building sheds at Broadway market	8,919 78
"	Chatsworth Run sewer	38,879 08
"	Baltimore Street sewer	801 70
"	repairs of Washington road	300 00
"	Franklin Street sewer	4,276 84
"	Fremont Street sewer	5,987 30
"	Eutaw Squares, second division	728 78
"	Federal Hill Park	20,006 87
"	building Grammar School No. 7	8,114 40
"	Eastern avenue sewer	4,977 99
"	inlets to Broadway sewer	155 10
"	improvement of Harford Run	150,787 50
"	names of streets on city lamps	1,750 00
"	drinking fountains	700 00
"	repairs to city dock	3,573 31
"	building addition to Bayview Asylum	49,765 77
"	sesqui-centennial celebration	2,504 50
"	building Cross street wharf	998 92
	Amount carried forward	$6,580,572 75

	Amount brought forward	$6,580,572 75
For	Light street bridge	828 01
"	Baltimore City Court	15,993 01
"	building Public School No. 4	3,854 65
"	Appeal Tax Court	130 89
"	System of sewerage	1,000 00
"	Wells and McComas Monument	35 00
"	water mains on Caroline, Aliceanna and Eden streets	4,200 00
"	recurbing Eutaw street	351 85
"	traps to inlet of sewer, corner Pratt and Eden streets	600 00
"	improvement of Primary School No. 18	5,913 00
"	iron railing in front of Grammar School No. 12	298 00
"	changing grade, corner Eutaw and Henrietta streets	75 00
"	recurbing Mulberry street	116 60
"	five plugs	350 00
"	culvert over Harris' Creek	800 00
"	fire alarm boxes	994 08
"	boat for Harbor Master	125 00
"	tax commission	1,027 33
"	shelling Ferry Bar road	95 10
"	paving Lexington Market	12,200 00
"	repairs of markets	4,831 41
"	inlets on North avenue	3,901 37
"	Washington street sewer	280 00
"	building Primary School No. 14	500 00
	Amount carried forward	$6,639,073 05

	Amount brought forward.....	$6,639,073 05
For	widening Saratoga street.....	50 00
"	Maryland Institute.....	3,000 00
"	building Engine House No. 4.....	3,514 00
"	Paving Loan of 1920.....	34,520 46
"	purchase of ground for Grammar School No. 3.....	300 00
"	entertainment of foreign visitors.....	3,200 00
"	repairs to City Hall.....	2,875 59
"	for damages and incidental expenses in connection with opening streets.	66,291 19
"	paving streets.....	122,283 02
"	balance in hands of City Register December 31, 1881.....	343,953 26
		$7,219,060 57

PRIVATE CARRIAGE LICENSES.

Ordinance No. 97, approved May 6, 1880, requires the owners of private carriages, used on the public highways, to pay annually a license; the revenue from which, under the ordinance aforesaid, is to be applied to the paving or repairing of the public streets of the city. The revenue derived from that source in the year 1880 was $10,702.50, while in the year which has just expired the receipts therefrom were but $6,639.92. This material reduction may be readily accounted for by a reference to the hard terms of the ordinance, and the difficulties encountered in the enforcement of it. The second section thereof requires the City Comptroller to furnish the owner of a private carriage, on the taking out of a license, with a number "painted on tin plate,

that shall not measure more than 2¾x2 inches, which shall be placed on the hindermost part of the hind axle of the carriage, by the owner or owners thereof."

In the beginning the owners remonstrated against the feature of the ordinance which required that painted tin numbers should be placed on the hindermost part of the rear axle of the carriage, for the reason that in many carriages the axle is not more than one inch or three-fourths of an inch in thickness, and that it would be impossible to screw the tin plate thereto, without impairing its strength, and thereby endangering human life, especially when the plate must be removed from year to year, and replaced by a plate with a different combination of painted colors, in order to render the enforcement of the ordinance effective. And further, because the placing of a painted tin plate on the most conspicuous part of the carriage would disfigure the same.

Those charged with the enforcement of the provisions of the law—the Executive of the city and the Department of Police—appreciated the reasons for those objections, and tacitly, at least, assented that a small metallic plate, of silver or other plain material, be placed by the owner on that part of the carriage where the name of the maker generally appears, and the regular license number, as furnished at the Comptroller's Department, be kept inside of the vehicle, to be exhibited when required. Some of the owners adopted this expedient, while others placed no numbers whatever on their carriages. The impression upon the minds of the owners of carriages at the time the ordinance

was adopted—that it would be enforced by legal process—induced many to take out license. The indulgence referred to, or disinclination to adopt the only plan under the ordinance by which violations of the law could be detected, dispelled those impressions; and hence, the falling off, in a large degree, of revenue in 1881, as compared with that of 1880.

The renewal of licenses in 1881 would not have produced the same amount of revenue that the original licenses produced in 1880, for the reason that the ordinance provided for a reduction of fifty cents on each license renewed; and while this had the effect of reducing the revenue, it would not of itself be sufficient to account for the whole diminution.

So far as the matter has been presented to the knowledge of the Comptroller, no attempt has been made to coerce an obedience of the provisions of the ordinance. Its rigorous enforcement would be an unpleasant service to those charged with its execution. The arrest of the passage of a private carriage on the public highway, filled as it might be with ladies or children, because the license plate was not placed on a conspicuous part of the carriage, would generally be regarded as a harsh proceeding.

The ordinance in its present form cannot be enforced without creating great dissatisfaction, and especially so in the face of a general objection to it upon the theory that has been set up, that the laws of the State and of the city already levy a tax upon the species of property embraced in the ordinance.

For the reasons stated, the revenue from that source will most likely continue to diminish from year to

year. Many citizens that pay their taxes cheerfully under the general levy, will not *voluntarily* give in their adhesion to a measure they believe to be wrong.

In my judgment, the ordinance should either be repealed, or so amended as to render its enforcement practicable.

FINANCIAL STATEMENT IN DETAIL.

For information in detail connected financially with the operations of the department of the City Comptroller, I respectfully invite your attention to the subjoined tables:

Table A is a statement of the amount charged and credited to the City Register.

Table B shows the amount of taxes collected during the year, and the amount charged to the City Collector for taxes in arrears.

Table C is a statement of the receipts and disbursements of Markets, sale of stalls in markets, General licenses, Carriage licenses, Theatrical licenses, City seals, Permits for sheds, signs, &c., Vaults and areas, Inspecting gas meters, Conscience fund, Sale of City Codes, City property, Auction duties, Public halls, Refuse and Wharfage accounts.

Table D is a statement of the several Courts, Supreme Bench, Removed cases, Fines, Judgments and suits, Magistrates, Registration, and Baltimore City Jail.

Table E is an exhibit of the receipts from taxes and other sources, and payment on account of interest on the stock debt, the sale of Jones' Falls stock of 1900,

Loans, Permanent Water Supply, Water Board, the Sinking Funds, and Interest.

Table F is a statement of the receipts and disbursements on account of the parks and squares.

Table G is a statement of the receipts and disbursements on account of the Health Department, Harbor Board, City Collector, City Poor, Building addition to Bayview Asylum, Sesqui-Centennial Celebration, Dog Pound, Mayoralty, Sarah Ann Fowler's Estate, Sale of City Property, Gasoline Lamps, &c., City Council, City Librarian, Tax Sales, State Police, Refunded Taxes, Public Printing, Fire Department, Public Schools, Elections, Supervisors of Elections, and Special Appropriations,

Table H is a statement of the amounts appropriated and expended by the City Commissioner, the Inspector of Buildings, and for sundry accounts.

Table I shows the amounts received and paid for opening, closing and widening, and for paving streets, alleys, &c.

I have the honor to be,

Very respectfully

Your obedient servant,

JOSHUA VANSANT,
Comptroller of the City.

TABLES.

TABLE A.

Dr. JOHN A. ROBB, *City Register, in account with*

1881.			
January	1	To Balance	$322,517 62
January	31	To Cash	207,477 81
February	28	"	591,105 49
March	31	"	359,510 69
April	30	"	695,049 77
May	31	"	223,794 66
June	30	"	1,995,285 11
July	31	"	242,148 25
August	31	"	276,788 47
September	30	"	461,944 74
October	31	"	366,860 28
November	30	"	517,154 16
December	31	"	959,423 52
			$7,219,060 57

TABLE A.

the Mayor and City Council of Baltimore. Cr.

1881.				
January	31	By Comptroller's warrants...		$545,378 62
February	28	"	" ...	418,096 86
March	31	"	" ...	407,318 15
April	30	"	" ...	1,162,960 67
May	31	"	" ...	491,459 75
June	30	"	" ...	517,978 00
July	31	"	" ...	670,826 66
August	31	"	" ...	360,374 66
September	30	"	" ...	453,431 23
October	31	"	" ...	607,220 99
November	30	"	" ...	858,613 13
December	31	"	" ...	381,448 59
December	31	By Balance.....		343,953 26
				$7,219,060 57

TABLE B.

Collection of Taxes, Opening of Streets, &c., made by the City Collector, for the year ending December 31, 1881.

	1876.	1877.	1878.	1879.	1880.	1881.	TOTAL.
Internal Improvements	$72 25	$943 49					$ 1,015 74
State Police	216 80	2,965 17	$34,747 16	$32,667 93	$89,277 98	$388,132 22	548,007 26
Certain Expenses	61 93	1,482 60	13,364 28	11,362 75	40,175 09	17 ,423 76	242,870 41
Criminal Court	30 97						30 97
Public Schools	196 15	2,560 84	22,719 30	25,566 23	62,494 57	299,920 36	413,457 45
City Poor	51 61	808 69	9,354 98	7,101 74	26,783 37	158,781 35	202,881 74
Direct Tax	887 78	9,569 46	89,540 77	98,003 81	236,586 64	970,330 62	1,404,919 08
Miscellaneous Stocks	278 74	4,043 43	69,494 33	32,667 94	138,380 88	423,416 98	668,282 30
Opening Streets	30 97	808 69	14,700 71	5,681 39	17,855 60		39,077 36
City Hall Sinking Fund	20 65	269 56					290 21
Funded Debt of 1868	10 32	134 76					145 08
	$1,858 17	$23,586 69	$ 253,921 53	$213,051 79	$611,554 13	$2,417,005 29	$3,520,977 60
Interest	493 89	4,711 18	35,818 68	18,136 54	7,071 79		66,232 08
Discount						116,147 19	116,147 19
	$2,352 06	$28,297 87	$289,740 21	$231,188 33	$618,625 92	$2,533,152 48	$3,703,356 87
Opening, Closing and Widening Streets, &c.							35,498 86
Paving Streets and Alleys							129,830 36
							$3,868,686 09

TABLE B—Concluded.

Amount charged against the City Collector, December 31st, 1881.

YEAR.	LEVY.	BASIS OF TAXATION.	AMOUNT.
1878	$1.90	$1,934,564 00	$ 36,756 71
1879	1.50	17,314,906 00	303,010 86
1880	1.37	25,500,557 00	349,357 61
1881	1.37	62,328,549 00	853,901 15
			$1,543,026 33

TABLE C.

Hanover Market—George A. Albaugh, Clerk.

Butcher stall rents		$994 50
Fish stall rents		266 00
Permanent stall rents		228 00
Eave stall rents		142 00
Street stall rents		458 00
Per diem rents	$1,141 42	
Licenses	1,205 00	
Confiscated butter	80	
		2,347 22
		$4,435 72

TABLE C—Continued.

Belair Market—Joseph H. Wright, Clerk.

Butcher stall rents		$2,390 00
Fish stall rents		178 00
Permanent stall rents		364 00
Eave stall rents		212 00
Vegetable stall rents		12 00
Street eave stall rents		155 00
Gutter stall rents		480 00
Movable stall rents		142 00
Per diem rents	$1,774 10	
Licenses	2,185 00	
		3,959 10
		$7,892 10

TABLE C—Continued.

Cross Street Market—James Graham, Clerk.

Butcher stall rents		$803 75
Fish stall rents		120 00
Permanent stall rents		370 00
Eave stall rents		390 00
Vegetable stall rents		175 00
Street eave stall rents		95 00
		$1,953 75
Per diem rents	$1,018 69	
		1,018 69
		$2,972 44

TABLE C—Continued.

Lexington Market—James C. Randall, Clerk.

Butcher stalls—rent and license...			$3,295 00
Fish stalls, " ...			336 00
Permanent stalls, " ...			1,962 00
Eave stalls, " ...			1,526 00
Space stalls, " ...			220 00
Street eave stalls, " ...			305 00
Street stalls, " ...			1,120 00
Movable stalls, " ...			294 00
			$ 9,058 00
Per diem rents.....	$2,336 90		
Confiscated butter.....	25 66		
			2,362 56
			$11,420 56

TABLE C—Continued.

Hollins Market—John O'Keefe, Clerk.

Butcher stalls—rent and license		$697 00
Fish stalls,	"	54 00
Permanent stalls,	"	200 00
Eave stalls,	"	220 00
Vegetable stalls,	"	52 00
Street eave stalls,	"	545 00
End stalls,	"	55 00
Space stalls,	"	205 00
		2,028 00
Per diem rents		1,472 27
		$3,500 27

TABLE C—Continued.

Centre Market—Daniel Murray, Clerk.

Butcher stalls—rent and license		$2,152 00
Fish stalls,	"	278 00
Gutter stalls,	"	401 00
Permanent stalls,	"	1,134 00
Eave stalls,	"	798 00
Street eave stalls,	"	177 00
Movable stalls,	"	726 00
		$5,666 00
Per diem rents		2,133 75
		$7,799 75

TABLE C—Continued.

Richmond Market—David H. Lucchesi, Clerk.

Butcher stalls, rent and license		$ 960 15
Permanent stalls,	"	307 00
Fish stalls,	"	180 00
Eave stalls,	"	250 00
Vegetable stalls,	"	545 00
Street eave stalls,	"	20 00
Aisle stalls,	"	90 00
Movable stalls,	"	107 00
Space stalls,	"	20 00
		$2,479 15
Per diem rents		1,144 05
		$3,623 20

TABLE C—Continued.

Fells Point Market—Charles Eagleston, Clerk.

Butcher stall rents		$1,470 00
Fish stall rents		44 00
Permanent stall rents		392 00
Eave stall rents		371 00
Street eave stall rents		20 00
Movable stall rents		60 00
Vegetable stall rents		1,416 00
		$3,773 00
Per diem rents	$1,521 98	
Licenses	1,315 00	
Confiscated butter	4 20	
		2,841 18
		$6,614 18

TABLE C—Continued.

Lafayette Market—Thomas Briddell, Clerk.

Butcher stalls	$105 00
Eave stalls	220 00
Street eave stalls	13 50
Permanent stalls	104 00
Vegetable stalls	8 00
Space stalls	80 00
	$530 50

TABLE C—Continued.

Summary of Markets.

	Dr.	Cr.
Hanover Market		$4,435 72
Belair "		7,892 10
Cross Street "		2,972 44
Lexington "		11,420 56
Hollins "		3,500 27
Centre "		7,799 75
Richmond "		3,623 20
Fell's Point "		6,614 18
Lafayette "		530 50
		$48,788 72
Expenses of cleaning, repairs, &c.:		
Hanover Market	$720 81	
Belair "	554 88	
Cross Street "	1,187 80	
Lexington "	589 13	
Centre "	760 37	
Richmond "	464 40	
Fell's Point "	703 58	
Lafayette "	308 37	
Hollins "	625 18	
	$5,914 52	
Less amount expended as per Resolutions Nos. 43, 65, 66, 68, 133, 137, 166 and 230, for hose, &c.	1,390 50	4,524 02
Net revenue		$44,264 70

TABLE C—Continued.

Amount received from the sale of Stalls in Markets.

	Dr.	Cr.
Richmond Market.....		$269 10
Balance, December 31, 1881.....	$269 10	
	$269 10	$269 10

General License.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881.....		$1,500 00
To amount paid for painting numbers, advertising, &c.....	$1,308 82	
To balance, December 31, 1881.....	191 18	
	$1,500 00	$1,500 00

TABLE C—Continued.

Receipts from Licenses.

	Dr.	Cr.
Wagons, 1 horse		$11,900 00
Wagons, 2 horse		5,474 15
Wagons, 4 horse		374 65
Carriages, 1 horse, 1 seat		3,722 15
Carriages, 1 horse, 2 seats, and 2 horses, 1 seat		1,888 85
Carriages, 2 horses, 2 seats		1,028 92
Carts		4,456 90
Drays		1,400 50
Omnibuses		1,132 60
Hacks		1,224 60
Package Carts		409 70
Lighters		258 50
Bacon		2,907 20
Puddings		204 15
Merchandise		245 50
Cheese		171 70
Foreign fruit		338 00
Billiards		1,732 34
Bagatelle		1,280 20
Ten pins		145 50
Pawnbrokers		800 00
Dogs		956 75
Coal oil		1,781 35
Theatrical		2,065 00
Balance, December 31, 1881	$45,899 21	
	$45,899 21	$45,899 21

TABLE C—Continued.

City Seals.

	Dr.	Cr.
By amount received from the sale of bills of health and sealing papers.....		$725 80
To balance December 31, 1881.....	$725 80	
	$725 80	$725 80

Permits for Sheds, Signs, &c.

	Dr.	Cr.
By amount received for permits for the erection of sheds, signs, steam boilers, &c.....		$4,101 06
By amount received for advertising.....		1,673 00
To amount paid for advertising....	$961 72	
To balance December 31, 1881.....	4,812 34	
	$5,774 06	$5,774 06

TABLE C—Continued.

Vaults and Areas.

	Dr.	Cr.
By amount received for permits for constructing vaults and areas		$1,224 15
To balance December 31, 1881.....	$1,224 15	
	$1,224 15	$1,224 15

Inspecting Gas Meters.

	Dr.	Cr.
By amount received from the General Superintendent of Lamps and Inspector and Sealer of Gas Meters.....		$3,133 00
To balance December 31, 1881.	$3 133 00	
	$3,133 00	$3,133 00

TABLE C—Continued.

Conscience Fund.

	Dr.	Cr.
By amount received from unknown parties through Ferdinand C. Latrobe, Mayor		$ 50 00
Charles Webb, City Collector		2,264 94
Rev. Edmund Didier		200 00
To balance December 31, 1881	$2,514 94	
	$2,514 94	$2,514 94

City Property.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$3,800 00
To amount of ground rents paid to sundry parties	$2,950 39	
To balance December 31, 1881	849 61	
	$3,800 00	$3,800 00
Received from sundry parties for ground rents due the city	$807 50	

TABLE C—Continued.

Sale of City Codes.

	Dr.	Cr.
By amount received by the City Librarian for the sale of City Codes of 1879.....		$25 00
To balance December 31, 1881.....	$25 00	
	$25 00	$25 00

Auction Duties.

	Dr.	Cr.
By amount received from auctioneers, State tax on sales...		$10,198 31
To balance, December 31, 1881.....$10,198 31		
	$10,198 31	$10,198 31

TABLE C—Continued.

Refuse.

	Dr.	Cr.
By amount received from the Commissioner of Health, from sale of street dirt.		$1,757 76
To balance, December 31, 1881	$1,757 76	
	$1,757 76	$1,757 76

Public Halls.

	Dr.	Cr.
Cross Street Hall—		
By amount received for rent		$331 00
Hollins Hall—		
By amount received for rent....		228 00
To amount paid for cleaning....	$ 22 50	
Broadway Hall—		
By appropriation, Ordinance No. 43, 1881.....		100 00
By amount received for rent. ..		1,126 00
To amount paid for cleaning, fuel, &c.....	101 20	
To balance, December 31, 1881..	1,661 30	
	$1,785 00	$1,785 00

TABLE C—Concluded.

Collection of Wharfage from January 1, 1881, to December 31, 1881.

Date.	1st District.	2d District.	3d District.	4th District.	5th District.	6th District.	Aggregate
January	$54 00	$176 70	$600 72	$422 76	$441 70	.....	$1,695 88
February	10 00	145 66	563 33	366 42	318 45	.....	1,403 86
March	88 19	144 31	421 23	474 92	602 95	.....	1,731 60
April	61 00	324 48	479 93	411 42	504 00	.....	1,780 83
May	14 00	261 65	533 88	377 09	734 50	.....	1,921 12
June	68 75	276 49	420 73	341 16	1,151 75	.....	2,258 88
July	56 00	306 18	579 90	377 72	1,046 55	$23 20	2,389 55
August	13 50	303 11	553 48	373 81	949 45	.....	2,193 35
September	82 25	337 97	562 73	540 42	1,080 50	.....	2,603 87
October	68 60	507 48	502 46	401 42	836 50	.....	2,316 46
November	26 20	418 87	436 53	429 41	611 80	.....	1,922 81
December	95 20	283 56	315 00	424 42	790 80	.....	1,908 98
	$637 69	$3,486 46	$5,969 92	$4,940 97	$9,068 95	$23 20	$24,127 19

Total collections from January 1 to December 31, 1881		$24,127 19
Less amount of commissions paid to Harbor Masters	$4,825 24	
" " paid for rent and incidental expenses	452 25	
" " " boatmen's salary	1,200 00	
" " of expense of anchorage grounds	968 40	
		7,445 89
Net revenue		$16,681 30

TABLE D.

Superior Court.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$16,000 00
To amount paid Crier	$1,500 00	
" " Bailiffs	6,000 00	
" " Janitor	360 00	
" " Clerk	1,589 02	
" " for Drawing Jurors	80 00	
" " Jurors	4,641 00	
" " Sheriff	154 20	
" " Witnesses	8 00	
To balance December 31, 1881	1,667 78	
	$16,000 00	$16,000 00

TABLE D—Continued.

Criminal Court.

	Dr.	Cr.
By appropriation, Resolution No. 2, 1881		$350 00
By appropriation, Resolution No. 29, 1881		550 00
By appropriation, Ordinance No. 43, 1881		65,000 00
To amount paid Bailiffs	$9,000 00	
" " Interpreter	999 96	
" " Sheriff	11,856 50	
" " Clerk	15,304 32	
" " State's Attorn'y	8,462 74	
" " for Drawing Jurors	140 00	
" " Incidental expenses	8 50	
" " Grand and Petit Jurors and Witnesses	9,976 30	
" " for Repairs	825 00	
To amount paid for special expenses incurred by the State's Attorney, including surveys, analyses, &c.	1,259 65	
To amount paid for board of Jurors	603 95	
To amount paid for stationery for the Grand Jury	28 34	
To amount transferred to cleaning streets account	7,465 71	
Amount received from the City Collector on account of the tax levy		30 97
	$65,930 97	$65,930 97

TABLE D—Continued.

Court Common Pleas.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$18,500 00
To amount paid Clerk	$1,828 20	
" " Crier	1,375 00	
" " Bailiffs	4,125 00	
" " Watchman	916 69	
" " Sheriff	257 20	
" " Jurors	5,196 59	
" " for Drawing Jurors	160 00	
" " for Stationery	92 03	
" " to Witnesses	8 40	
To amount transferred to cleaning streets account, as per Ornance No. 111, approved October 8, 1881	4,534 29	
To balance, December 31, 1881	560 00	
	$18,500 00	$18,500 00

TABLE D—Continued.

Baltimore City Court.

	Dr.	Cr.
By appropriation, Ordinance 62, 1881		$19,000 00
To amount paid to Clerk	$1,879 20	
" " Crier	1,500 00	
" " Bailiffs	6,000 00	
" " Sheriff	184 80	
" " Jurors	5,441 50	
" " Witnesses	13 50	
" for drawing Jurors.	180 00	
" " Stationery	344 01	
" " Miscellaneous	450 00	
To amount transferred to Nuisance account, as per Ordinance No. 111, approved October 8, 1881	1,600 00	
To Balance, December 31, 1881	1,406 99	
	$19,000 00	$19,000 00

TABLE D—Continued.

Circuit Court.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$113 55
By appropriation, Ordinance No. 43, 1881		9,500 00
To amount paid Bailiffs and Messenger	$6,750 00	
" " Watchman	900 00	
" " Clerk	164 40	
" " for Drawing Jurors	240 00	
" " Stationery	195 35	
" " Repairs	113 55	
To balance December 31, 1881	1,250 25	
	$9,613 55	$9,613 55

TABLE D—Continued.

Orphans' Court.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$8,000 00
To amount paid to Judges	$5,634 00	
" " Bailiff	1,252 00	
" " Janitor	583 31	
" for incidental expenses	207 15	
To balance December 31, 1881	323 54	
	$8,000 00	$8,000 00

Supreme Bench.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$2,650 00
To amount paid to Judges	$2,500 00	
" " City Collector for furnishing list of taxpayers	150 00	
	$2,650 00	$2,650 00

TABLE D—Continued.

Removed Cases.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881.		$5,000 00
To amount paid to sundry parties.	$4,346 28	
To balance December 31, 1881.....	653 72	
	$5,000 00	$5,000 00

Fines.

	Dr.	Cr.
By amount received from A. E. Smyrk, late Sheriff, for the city's portion of fines imposed by the Criminal Court.....		$647 75
To balance December 31, 1881.....	$647 75	
	$647 75	$647 75

TABLE D—Continued.

Judgments and Suits.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$22,000 00
To amount paid sundry Judgments, rendered against the M. & C. C. by various Courts, and for sundry expenses paid	$24,410 52	
By balance, December 31, 1881		2,410 52
	$24,410 52	$24,410 52
By amount received for expenses paid in error in case of Scarff vs. M. & C. C. of Baltimore		$ 190 05

Magistrates.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$13,250 00
To amount paid to Magistrates	$12,600 00	
" " Substitutes'	360 00	
To balance, December 31, 1881	290 00	
	$13,250 00	$13,250 00

TABLE D—Continued.

Registration.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$11,000 00
By appropriation, Resolution No. 8, 1881		136 40
By appropriation, Resolution No. 8, 1881		60 40
By appropriation, Resolution No. 8, 1881		71 40
By appropriation, Resolution No. 8, 1881		89 80
By appropriation, Resolution No. 13, 1881		27 80
By appropriation, Resolution No. 15, 1881		87 00
By appropriation, Resolution No. 19, 1881		49 51
By appropriation, Resolution No. 21, 1881		10 00
By appropriation, Resolution No. 23, 1881		8 40
By appropriation, Resolution No. 41, 1881		48 25
By appropriation, Resolution No. 63, 1881		2,119 75
By appropriation, Resolution No. 64, 1881		58 14
To amount paid for salaries of Register and Counsellor	$10,300 00	
To amount paid for advertising, stationery, &c	3,254 04	
To balance, December 31, 1881	212 81	
	$13,766 85	$13,766 85

TABLE D—Concluded.

Baltimore City Jail.

	Dr.	Cr.
By appropriation, Ordinance No. 13, 1881		$2,578 84
By appropriation, Ordinance No. 17, 1881		15,500 00
By appropriation, Ordinance No. 43, 1881		49,339 80
By appropriation, Ordinance No. 43, 1881		3,000 00
By appropriation, Ordinance No. 43, 1881		800 00
By amount received for board of U. S. prisoners		679 00
By amount received for hire of prisoners		1,869 25
By amount received from the counties for board of prisoners.		195 20
By amount received from sale of refuse and other sources		350 10
To amount paid on the warrants of the Board of Visitors.	$56,164 12	
To amount transferred to Fire Department, as per Ordinance No. 111, approved October 8, 1881	15,000 00	
To balance December 31, 1881	3,148 07	
	$74,312 19	$74,312 19

Note.—The Board of Visitors of the Baltimore City Jail were, by Ordinance No. 111, 1881, (of the M. and C. C., approved October 8, 1881,) authorized to appropriate the amount of $3,000, (appropriated for repairs to laundry, machinery, &c.,) and the $800 appropriated for walls and sewers, to the general expense account.

TABLE E.

Receipts from taxation and other sources, and payments on account of interest on the Stock Debt.

	Dr.	Cr.
Received from the City Collector on account of the tax levy for internal improvements		$1,015 74
Received from the City Collector on account of the tax levy for miscellaneous stocks		668,282 30
Received from the Baltimore and Ohio Railroad Company, interest on the $5,000,000 loan		300,000 00
Received from the Commissioners of Finance, dividend on 32,500 shares Baltimore and Ohio Railroad stock		325,000 00
Received from Park Board, interest on Public Park Loan		33,333 96
Received from Water Board for interest on Water Loans of 1894 and 1916		452,630 00
Paid interest on the Stock Debt	$1,842,741 79	
Balance December 31, 1881.		62,479 79
	$1,842,741 79	$1,842,741 79

TABLE E—Continued.

Jones' Falls Stock.

	Dr.	Cr.
Proceeds of sale of 5 and 6 per cent. stock prior to January 1, 1881		$1,623,507 36
Proceeds of sale of 5 per cent. stock during the past year.		42,420 00
To balance December 31, 1881.	$1,665,927 36	
	$1,665,927 36	$1,665,927 36

Loans.

	Dr.	Cr.
By balance January 1, 1881		$150,000 00
By amount borrowed from sundry parties		345,000 00
To amount paid to sundry parties	$260,000 00	
To balance December 31, 1881	235,000 00	
	$495,000 00	$495,000 00

TABLE E—Continued.

Permanent Water Supply.

	Dr.	Cr.
By balance January 1, 1881.....		$112,976 47
To amounts paid on the warrants of the Water Board.....	$105,741 98	
To balance December 31, 1881..	7,234 49	
	$112,976 47	$112,976 47

Water Board.

	Dr.	Cr.
To balance January 1, 1881.....	$ 2,966 41	
By amount received for water rents and from all other sources.....		$739,237 00
To amount paid on warrants of the Water Board for interest on the Water Loan, salaries and other expenses.....	723,247 54	
To balance December 31, 1881..	13,023 05	
	$739,237 00	$739,237 00

TABLE E—Continued.

Receipts on account of the Sinking Funds.

	Dr.	Cr.
Received from City Passenger Railway Companies for Park Sinking Fund, as follows:		
Baltimore City Passenger Railway Company		$8,820 21
Citizens' Passenger Railway Company		2,985 87
North Baltimore Passenger Railway Company		992 90
People's Passenger Railway Company		1,040 32
York Road Passenger Railway Company		450 19
City Hall Sinking Fund		290 21
Funded Debt of 1868		145 08
Amount paid to Commissioners of Finance	$14,724 69	
	$14,724 69	$14,724 69

TABLE E—Concluded.

General Interest.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881.....		$90,800 00
By amount received from the City Collector, for interest on arrearages of taxes.....		273,179 27
To amount of discount on taxes	$116,147 19	
To amount paid for interest on loans, and on accounts due by the Mayor and City Council of Baltimore.....	11,078 84	
To balance December 31, 1881.	236,753 24	
	$363,979 27	$363,979 27

TABLE F.

Druid Hill and Patterson Parks.

	Dr.	Cr.
By balance, January 1, 1881....		$ 7,024 89
By amount received from Passenger Railway Companies as follows:		
Baltimore City Passenger Railway Company		68,614 86
Citizens' Passenger Railway Company		11,943 52
York Road Passenger Railway Company.		1,800 81
North Baltimore Passenger Railway Company.....		3,971 62
People's Passenger Railway Company.....		4,161 24
By amount received from the Public Park Commissioners:		
On account of Druid Hill Park.		2,815 57
" " Patterson "		275 00
To amounts paid on warrants of the Public Park Commissioners:		
For Druid Hill Park.....	$54,930 42	
" Patterson "	12,166 69	
" interest on Public Park stock.....	33,333 96	
To balance, December 31, 1881.	176 44	
	$100,607 51	$100,607 51

TABLE F—Continued.

Riverside Park.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881, for rent		$3,770 62
By appropriation, Ordinance No. 43, 1881		5,000 00
By amount received from Public Park Commissioners		6 30
To amount paid on the warrants of the Public Park Commissioners.	$5,001 70	
To amouut paid for rent	3,770 62	
To balance December 31, 1881	4 60	
	$8,776 92	$8,776 92

Federal Hill Park.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$20,000 00
By amount received from the Public Park Commissioners		11 50
To amount paid on the warrants of the Public Park Commissioners	$20,006 87	
To balance December 31, 1881	4 63	
	$20,011 50	$20,011 50

TABLE F—Continued.

Eutaw Squares, First Division.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$1,250 00
By appropriation, Ordinance No. 43, 1881, to cover the deficiencies of 1880		762 69
To amount paid on warrants of the Commissioners	$2,012 65	
To balance December 31, 1881	04	
	$2,012 69	$2,012 69

Harlem Squares.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$2,250 00
By appropriation, Ordinance No. 43, 1881, for a brick pavement in the bed of Stricker street, from Harlem to Edmondson avenue		250 00
By rent of house for use as a saloon.		100 00
To amount paid on warrants of the Commissioners	$2,585 78	
To balance December 31, 1881	14 22	
	$2,600 00	$2,600 00

TABLE F—Continued.

Park Place Square.

	Dr.	Cr.
By appropriation, Resolution No. 10, 1881, for Curb around Park Place Square		$2,500 00
By appropriation, Ordinance No. 43, 1881, for general maintenance.		600 00
To amount expended under the direction of the City Commissioner	$2,481 39	
To amount paid on warrants of Park Place Commissioners.....	600 00	
To balance, December 31, 1881.....	18 61	
	$3,100 00	$3,100 00

TABLE F—Continued.

Perkins Spring Square.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881, for rent		$2,052 00
By appropriation, Ordinance No. 43, 1881, for general maintenance.		$1,000 00
By appropriation, Ordinance No. 43, 1881, for deficiency bills of 1880		230 93
To amount paid for rent	$2,052 00	
To amount paid on warrants of Commissioners	1,141 97	
To balance, December 31, 1881	88 96	
	$3,282 93	$3,282 93

Eastern Fountain.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$1,500 00
By amount received from Public Park Commissioners		480 00
To amount paid on the warrants of the Public Park Commissioners.	$1,830 37	
To balance, December 31, 1881	149 63	
	$1,980 00	$1,980 00

TABLE F—Concluded.

Expenditures and appropriations on account of Public Squares.

	Dr.	Cr.
Broadway Squares	$5,319 28	$5,320 00
Mount Vernon Squares	2,000 00	2,000 00
Madison Square	1,498 08	$1,500 00
Lafayette Square	1,327 12	1,500 00
Franklin Square	1,407 47	1,500 00
Jackson Square	845 43	850 00
Union Square	1,001 64	1,500 00
Baker Circle	100 00	100 00
Eutaw Squares, 2d division	728 78	1,000 00
To balance December 31, 1881	1,042 20	
	$15,270 00	$15,270 00

TABLE G.

Health.

	Dr.	Cr.
By appropriations, Ordinance No. 13, 1881, for deficiency bills of 1880		$512 50
By appropriation, Ordinance No. 43, 1881, for General Health...		30,000 00
By appropriation, Resolution No. 234, 1881		200 00
To amount paid on warrants of the Commissioner of Health...	$34,049 42	
By amount transferred from House of Refuge account, as per Ordinance No. 111, approved October 8, 1881.		3,520 00
To balance December 31, 1881....	183 08	
	$34,232 50	$34,232 50

TABLE G—Continued.

Cleaning Streets.

	Dr.	Cr.
By appropriation, Ordinance No. 13, 1881, for deficiency bills of 1880		$1,279 41
By appropriation, Ordinance No. 43, 1881, for cleaning streets and removing garbage		180,000 00
By appropriation, Ordinance No. 43, 1881, for contract for removal of garbage		6,750 00
By amount transferred from Criminal Court and Court of Common Pleas accounts, as per Ordinance No. 111, approved October 8, 1881		12,000 00
To amount paid on warrants of the Commissioner of Health	$200,023 51	
To balance December 31, 1881.	5 90	
	$200,029 41	$200,029 41

TABLE G—Continued.

Nuisances and Sewers.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$7,000 00
By amount transferred from Baltimore City Court account, as per Ordinance No. 111, approved October 8, 1881		1,600 00
To amount paid on warrants of the Commissioner of Health	$8,600 00	
	$8,600 00	$8,600 00

Marine Hospital.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$14,000 00
By appropriation, Resolution No. 264, 1881		1,500 00
By amount received from Marine Hospital fees		8,869 24
To amount paid on warrants of the Commissioner of Health	$15,494 24	
To balance December 31, 1881	8,875 00	
	$24 369 24	$24,369 24

TABLE G—Continued.

Post-Mortems.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$300 00
To amount paid on warrants of the Commissioner of Health	$300 00	
	$300 00	$300 00

Expenditures and appropriations on account of the Harbor Board.

	Dr.	Cr.
Dredging, salaries, &c., Ordinance No. 43, 1881	$67,163 39	$70,000 00
Iceboat F. C. Latrobe, Ordinance No. 43, 1881		9,500 00
Iceboat F. C. Latrobe, Resolution 187, &c	12,499 02	3,000 00
Repairs of wharves, Ordinance No. 43, 1881	2,460 24	2,700 00
Repairs to City Dock, Ordinance No. 43, 1881	3,573 31	3,611 81
Balance December 31, 1881	3,115 85	
	$88,811 81	$88,811 81

TABLE G—Continued.

City Collector.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881.		$42,500 00
By appropriation, Ordinance No. 43, 1881, for incidental expenses		1,300 00
By appropriation, Ordinance No. 43, 1881, for deficiency bills of 1880		432 24
To amount paid for salaries and incidental expenses of the City Collector's office and Appeal Tax Court	$44,197 07	
To balance December 31, 1881	35 17	
	$44,232 24	$44,232 24

TABLE G—Continued.

City Poor.

	Dr.	Cr.
By amount received from the City Collector on account of the tax levy		$202,881 74
By appropriation for Bayview Asylum, Ordinance No. 43, 1881		65,000 00
By amount received from board of inmates and resident students, sale of refuse, &c.		1,649 46
Paid warrants of the Trustees of Bayview Asylum	$64,999 61	
By appropriation for the House of Refuge, Ordinance No. 43, 1881		20,000 00
By Resolution No. 141, 1881		5,000 00
Paid to House of Refuge	17,263 83	
By amount transferred to Health account	3,520 00	
By amount transferred to Entertainment of French Visitors account, as per Ordinance No. 111, 1881	2,500 00	
By appropriation for House of Reformation and Instruction for Colored Children, Ordinance No. 43, 1881		15,000 00
Amounts carried forward	$88,283 44	$309,531 20

TABLE G—Continued.

	Dr.	Cr.
Amounts brought forward....	$88,283 44	$309,531 20
Paid to House of Reformation and Instruction for Colored Children.....	13,980 00	
By appropriation for dispensaries, Ordinance No. 43, 1881, as follows:		
Southern.....	1,000 00	1,000 00
Northeastern.....	1,000 00	1,000 00
Baltimore General	400 00	400 00
" Special	400 00	400 00
Northwestern.....	400 00	400 00
Eastern.....	400 00	400 00
Homœopathic Free.....	400 00	400 00
College of Physicians and Surgeons.....	400 00	400 00
University of Maryland.....		400 00
By appropriation for St. Mary's Industrial School, Ordinance No. 43, 1881.....		$20,000 00
Paid to St. Mary's Industrial School	$17,898 25	
By appropriation for Mount Hope Retreat, Ordinance No. 43, 1881		13,000 00
Paid to Mount Hope Retreat ..	13,000 00	
Amounts carried forward.....	$137,561 69	$347,331 20

TABLE G—Continued.

	Dr.	Cr.
Amounts brought forward....	$137,561 69	$347,331 20
By appropriation for Deaf and Dumb, Ordinance No. 43, 1881.....		500 00
Paid for Deaf and Dumb.....	496 24	
By appropriation for Indigent Sick at Universities, Ordinance No. 43, 1881.....		9,000 00
Paid to University of Maryland.	4,230 49	
Paid to Washington University.	4,236 58	
By appropriation for Widows and Orphans of War of 1812, Ordinance No. 43, 1881.....		300 00
Paid to Widows and Orphans, War of 1812.....	300 00	
By appropriation for Old Defenders, War of 1812, Ordinance No. 43, 1881.		300 00
Paid Old Defenders, War of 1812.	300 00	
By appropriation for Maryland Hospital for the Insane, Ordinance No. 43, 1881.....		23,000 00
Paid to Maryland Hospital for the Insane	19,862 31	
	$166,987 31	$380,431 20

TABLE G—Continued.

Building Addition to Bayview Asylum.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$49,800 00
To amount paid on the warrants of the Trustees of the Poor	$49,765 77	
To balance December 31, 1881	34 23	
	$49,800 00	$49,800 00

Sesqui-Centennial Celebration.

	Dr.	Cr.
By appropriation, Resolution No. 158, 1881		$2,500 00
By appropriation, Ordinance No. 43, 1881		100 00
By amount received from ex-Mayor, F. C. Latrobe		50 53
To amount paid on the orders of the Mayor	$ 2,504 50	
To balance December 31, 1881	146 03	
	$2,650 53	$2,650 53

TABLE G—Continued.

Dog Pound.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$1,100 00
By amount received for dead dogs.		48 90
By amount received for dogs sold at auction		85 25
By amount received for dogs redeemed		13 00
To amount paid for dogs captured.	$875 00	
" " feed	24 60	
" " fuel	28 00	
" " ground rent	150 00	
" " repairs.	14 70	
To balance December 31, 1881	154 85	
	$1,247 15	$1,247 15

Sarah Ann Fowler's Estate.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$49 95
To amount paid the heirs of Sarah A. Fowler, as per Chapter 389 of the Laws of Maryland of 1880.	$49 95	
	$49 95	$49 95

TABLE G—Continued.

Mayoralty.

	Dr.	Cr.
By appropriation, Ordinance No. 13, 1881		$103 91
By appropriation, Ordinance No. 43, 1881		2,500 00
By amount received from the Mayor for one day's services to ex-officio Mayor Veazey		7 00
To amount paid for incidental expenses of the Mayor's office	$2,561 75	
To balance December 31, 1881	49 16	
	$2,610 91	$2,610 91

Sale of City Property.

	Dr.	Cr.
By amount received from Allen Dorsey for the sale of property for benefit of the Commissioners of Finance		$3,149 72
By amount received from Engineer, Harbor Board, for the sale of an old scow		50 00
To amount paid to Commissioners Finance	$3,149 72	
To amount paid to hauling scow on railway	2 00	
To balance December 31, 1881	48 00	
	$3,199 72	$3,199 72

TABLE G—Continued.

Gasoline Lamps, Lamp Pillars and Lamps, and Repairs of Lamps.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$25,000 00
By amount received from sundry parties for injury to lamps		93 42
To amount paid on warrants of the General Superintendent of Lamps	$22,534 45	
To balance December 31, 1881	2,558 97	
	$25,093 42	$25,093 42

TABLE G—Continued.

City Council.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$52,000 00
By appropriation, Resolution No. 9, 1881		1,494 84
By appropriation, Resolution No. 20, 1881		4 20
By appropriation, Resolution No. 22, 1881		22 18
By appropriation, Resolution No. 38, 1881		5 10
By appropriation, Resolution No. 123, 1881		18 40
By appropriation, Resolution No. 165, 1881		2 00
To amount paid to members	$29,909 26	
" " clerks, &c	13,304 32	
" for printing and other expenses	10,069 44	
To balance December 31, 1881	263 70	
	$53,546 72	$53,546 72

TABLE G—Continued.

City Librarian.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$7,000 00
By amount received for furnishing copies of official documents, &c.		70
To amount paid on warrants of the City Librarian for stationery, &c.	$6,998 45	
To balance December 31, 1881	2 25	
	$7,000 70	$7,000 70

Tax Sales.

	Dr.	Cr.
To amount paid for the purchase of property by the Mayor and City Council to secure taxes	$7,895 33	
By amount received from sundry parties for redemption of property previously sold		$10,434 40
To balance December 31, 1881	2,539 07	
	$10,434 40	$10,434 40

TABLE G—Continued.

State Police.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$585,000 00
To amount paid on warrants of the Board of Police Commissioners	$584,846 50	
To balance December 31, 1881	153 50	
	$585,000 00	$585,000 00
Received from the City Collector on account of the tax levy for the Police Department	$548,007 26	

Taxes Refunded.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$5,000 00
By amount received from Jas. Pollard, paid him in error		14 81
To amount of taxes refunded to sundry parties, by order of the Appeal Tax Court	$3,803 24	
To balance December 31, 1881	1,211 57	
	$5,014 81	$5,014 81

TABLE G—Continued.

Public Printing.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$1,800 00
By amount received from City Commissioner		21 00
To amount paid for advertising	$1,507 91	
To balance December 31, 1881	313 09	
	$1,821 00	$1,821 00

TABLE G—Continued.

Fire Department.

	Dr	Cr.
By appropriation, Ordinance No. 13, 1881, for deficiency bills of 1880		$7,342 94
By appropriation, Ordinance No. 43, 1881		171,459 00
By amount received from sundry refuse, &c		150 25
By amount transferred from Jail account, as per Ordinance No 111, approved October 8, 1881		15,000 00
To amount paid on warrants of the Fire Commissioners, for expenses of the Fire Department and the Police and Fire Alarm Telegraph	$193,796 98	
To balance December 31, 1881.	155 21	
	$193,952 19	$193,952 19

TABLE G—Continued.

Public Schools.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$623,000 00
To amount paid on warrants of the Board of Public School Commissioners on account of white schools	$562,459 18	
To amounts paid on warrants of the Board of Public School Commissioners on account of colored schools	60,530 67	
To balance December 31, 1881	10 15	
	$623,000 00	$623,000 00
Receipts from various sources on account of Public Schools:		
From the City Collector on account of the tax levy	$413,457 45	
From the State, city's proportion of the State tax	131,814 47	
From J. F. Plummer, executor	129 59	
" H. M. Cowles, secretary, for use of books, &c	47,562 91	
	$592,964 42	

TABLE G—Continued.

Elections.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$7,700 00
To amount paid for per diem of Judges and Clerks, room rent, advertising, stationery, &c	$7,080 74	
To balance December 31, 1881	619 26	
	$7,700 00	$7,700 00

Supervisors of Elections.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$2,000 00
To amount paid to clerk	$499 95	
" " messenger	50 00	
" " for advertising.	1,227 08	
" " for incidental expenses	65 96	
To balance December 31, 1881	157 01	
	$2,000 00	$2,000 00

TABLE G—Concluded.

Special Appropriations.

	Dr.	Cr.
Favor A. Hahl & Co., Resolution No. 14, 1881	$ 593 75	$ 593 75
" C. A. Mauer, Resolution No. 36, 1881	124 27	124 27
" Rebecca Goodwin, Resolution No. 40, 1881	15 00	15 00
" C. M. Roche, Resolution No. 108, 1881	60 00	60 00
" Bailiffs, Resolution No. 145, 1881	10,000 00	10,000 00
" C. Whiteley, Resolution No. 152, 1881	168 00	168 00
" F. A. Prevost, Resolution No. 151, 1881	296 56	296 56
" E. B. Weaver, Resolution No. 168, 1881	350 00	350 00
" S. J. Martenet, Resolution No. 177, 1881	483 00	483 00
" S. G. Davis, Resolution No. 219, 1881	100 00	100 00
" Wm. Konig, Resolution No. 253, 1881	292 50	292 50
" Herman Kohler, Resolution No. 252, 1881	204 26	204 26
	$12,687 34	$12,687 34

TABLE H.

City Commissioner.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$9,525 00
To amount paid for salaries	$9,000 00	
" " livery	500 00	
" " incidental expenses	4 00	
To balance, December 31, 1881	21 00	
	$9,525 00	$9,525 00

Repairs of Sewers.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$14,200 00
To amount received for permits to connect with sewers		2,080 65
To amount paid on warrants of the City Commissioner	$13,799 98	
To balance December 31, 1881	2,480 67	
	$16,280 65	$16,280 65

TABLE H—Continued.

Repairs of Paved Streets.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$70,000 00
By amount received from sale of old material		198 93
To amount paid on warrants of the City Commissioner	$69,144 90	
To balance, December 31, 1881	1,054 03	
	$70,198 93	$70,198 93

Repairs of Bridges.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$12,000 00
To amount paid on warrants of the City Commissioner	$11,617 15	
To balance December 31, 1881	382 85	
	$12,000 00	$12,000 00

TABLE H—Continued.

Improvement of Jones' Falls.

	Dr.	Cr.
To balance January 1, 1881..	$1,412,417 94	
To amount paid on warrants of the City Commissioner.	229,384 99	
By amount received from the sale of old material.....		$ 621 00
By balance December 31, 1881		1,641,181 93
	$1,641,802 93	$1,641,802 93

Baltimore Street Sewer.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881.....		$ 851 70
To amount paid on warrants of the City Commissioner..... ...	$ 801 70	
To balance December 31, 1881.....	50 00	
	$ 851 70	$ 851 70

TABLE H—Continued.

Chatsworth Run Sewer.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$22,716 23
By appropriation, Ordinance No. 15, 1881, to condemn a right of way for Chatsworth Run Sewer.		18,500 00
By amount received from Paul Rusker		495 00
To amount paid on warrants of the City Commissioner	$38,879 08	
To balance December 31, 1881	2,832 15	
	$41,711 23	$41,711 23

Light Street Bridge.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$1,200 00
To amount paid on warrants of the City Commissioner	$ 828 01	
To balance, December 31, 1881	371 99	
	1,200 00	$1,200 00

TABLE H—Continued.

Improvement of Harford Run.

	Dr.	Cr.
By balance January 1, 1881.....		$ 170 62
By amount received, proceeds of the sale of stock.		257,665 00
To amount paid on warrants of the City Commissioner.....	$150,787 50	
To balance December 31, 1881.	107,048 12	
	$257,835 62	$257,835 62

Fremont Street Sewer.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881		$6,000 00
By amount received from sale of old material.....		4 25
To amount paid on warrants of the City Commissioner.....	$5,987 30	
To balance December 31, 1881.....	16 95	
	$6,004 25	$6,004 25

TABLE H—Continued.

Expenditures and Appropriations, City Commissioner's Department.

	Dr.	Cr.
Repairs of unpaved streets, Ordinance No. 43, 1881	$1,630 78	$1,800 00
Paving cross streets, Ordinance No. 43, 1881	5,608 30	6,000 00
Flag and stepping-stones, Ordinance No. 43, 1881	5,995 76	6,000 00
Iron plates, Ordinance No. 43, 1881	3,874 71	3,892 16
Repaving streets, " " "	931 59	1,000 00
Paving in front of city property, Ordinance No. 43, 1881	468 04	500 00
Harford run sewer, Ordinance No. 43, 1881	7,371 98	17,600 93
Repairs of Washington road, Ordinance No. 43, 1881	300 00	300 00
Inlets to sewer, North avenue, Ordinance No. 43, 1881	3,901 37	4,000 00
Franklin street sewer, Ordinance No. 43, 1881	4,276 84	4,283 26
Fremont street sewer, Ordinance No. 43, 1881	5,987 30	6,004 25
Traps to inlets of Broadway sewer, Ordinance No. 43, 1881	155 10	332 04
Baltimore street sewer, Ordinance No. 43, 1881	801 70	851 70
Amounts carried forward	$41,303 47	$52,564 34

TABLE H—Continued.

	Dr.	Cr.
Amounts brought forward....	$41,303 47	$52,564 34
Eastern avenue sewer, Ordinance No. 5, 1881.....	4,977 99	5,000 00
Recurbing Eutaw street, Resolution No. 25, 1881.....	351 85	400 00
Traps to inlets of sewer cor. Pratt and Eden streets, Resolution No. 26, 1881.....	600 00	600 00
Changing grade cor. Eutaw and Henrietta streets, Resolution No. 47, 1881.....	75 00	75 00
Recurbing Mulberry street, Resolution No. 50, 1881.....	116 60	150 00
Washington street sewer, Ordinance No. 43, 1881.....	280 00	400 00
Balance December 31, 1881.....	11,484 43	
	$59,189 34	$59,189 34

TABLE H—Continued.

Expenditures and Appropriations, Inspector of Buildings Department.

	Dr.	Cr.
Repairs of public schools, Ordinance No. 43, 1881	$33,440 20	$43,892 00
Building Public School No. 2, Ordinance No. 2, 1881	6,877 66	18,000 00
Repairs of city property, Ordinance No. 43, 1881	3,401 01	3,500 00
Building sheds at Broadway market, Ordinance No. 18, 1881	8,919 78	10,000 00
Repairs of City Hall, Ordinance No. 43, 1881	2,875 59	3,000 00
Building Grammar School No. 7, Ordinance No. 43, &c., 1881.	8,114 40	8,266 00
Building Public School No. 4, Ordinance No. 20, 1881	3,854 65	15,000 00
Improvement of Primary School No. 18, Resolution No. 39, 1881	5,913 00	6,000 00
Iron railing in front of Grammar School No. 12, Resolution No. 44, 1881	298 00	300 00
Paving Lexington market, Resolution No. 147, 1881	12,200 00	12,200 00
Amounts carried forward...	$85,894 29	$120,158 00

TABLE H—Continued.

	Dr.	Cr.
Amounts brought forward..	$85,894 29	$120,158 00
Repairs of market houses, Ordinance No. 43, 1881.....	4,831 41	5,000 00
Building Primary School No. 14, Ordinance No. 64, 1881.....	500 00	500 00
Building Engine House No. 4, Ordinance No. 60, 1881.....	3,514 00	8,000 00
Salaries, Ordinance No. 43, 1881.	3,000 00	3,000 00
Incidental expenses, Ordinance No. 43, 1881.....	186 39	200 00
Balance December 31, 1881.....	38,931 91	
	$136,858 00	$136,858 00

TABLE H—Continued.

Expenditures and Appropriations for Sundry Accounts.

	Dr.	Cr.
General expense, Ordinance No. 43, 1881	$1,596 73	$1,600 00
Court House and Record Office, expense of, Ordinance No. 43, 1881	4,343 52	4,360 00
Old Masonic Hall, expense of, Ordinance No. 43, 1881	2,938 78	2,962 02
Lamplighters' salaries, Ordinance No. 43, 1881	43,680 00	43,680 00
Salaries of sundry officers, Ordinance No. 43, 1881	67,020 00	67,020 00
Gas, Ordinances Nos. 13 and 43, 1881	176,530 19	186,334 68
Commissioners for Opening Streets, Ordinance No. 43, 1881	129 41	150 00
Superintendent of the City Hall, Ordinance No. 43, 1881.	15,900 19	16,000 00
Insurance of Bayview Asylum, Ordinance No. 43, 1881	855 00	862 50
Insurance of Baltimore City College and Female High Schools, Ordinance No. 43, 1881	1,720 00	2,100 00
Amounts carried forward	$314,713 82	$325,069 20

TABLE H—Continued.

	Dr.	Cr.
Amounts brought forward....	$314,713 82	$325,069 20
Coroners' salaries, Ordinance No. 43, 1881.....	2,400 00	2,400 00
Transportation to the House of Correction, Ordinance No. 43, 1881	143 50	250 00
Carrying poor to homes, Ordinance No. 43, 1881.	641 50	800 00
Repairs to clock on Northeastern Station House, Resolution No. 59, 1881.....	100 00	200 00
Repairs to Belair Market, Resolution No. 52, 1881	3,875 00	4,000 00
Ice Boat Maryland, Ordinance No. 43, 1881.....	10,000 00	10,000 00
State tax on city loans, Ordinance No. 43, 1881.....	10,318 92	10,052 00
Ringing mechanics' bells, Resolution No. 33, 1881.....	200 00	200 00
Condemnation of Federal Hill for a public park, Ordinance No. 43, 1881.....	2,745 12	3,723 70
Names of streets on city lamps, Ordinance No. 43, 1881.....	1,750 00	1,750 00
Amounts carried forward.....	$346,887 86	$358,444 90

TABLE H—Concluded.

	Dr.	Cr.
Amounts brought forward.	$346,887 86	$358,444 90
Wells and McComas monument, gate in railing of, Resolution No. 12, 1881	35 00	50 00
System of Sewerage, Resolution No. 11	1,000 00	1,000 00
Watermains on Caroline, Alice-anna and Eden streets, Resolution No. 16, 1881	4,200 00	4,200 00
Fire plugs, Resolution No. 56, 1881	350 00	350 00
Fire-alarm boxes, Resolutions Nos. 89 and 153, 1881	994 08	1,000 00
Boat for Harbor Master, Resolution No. 92, 1881	125 00	125 00
Shelling Ferry Bar road, Resolution No. 140, 1881	95 10	100 00
Maryland Institute, Ordinance No. 42, 1881	3,000 00	3,000 00
Purchase of ground for Grammar School No. 3, Resolution No. 222, 1881	300 00	300 00
Balance December 31, 1881	11,582 86	
	$368,569 90	$368,569 90

TABLE I.

Opening Bond Street.

	Dr.	Cr.
By balance January 1, 1881.....		$248 65
To amount paid for damages.....	$175 00	
To balance December 31, 1881.....	73 65	
	$248 65	$248 65

Opening Presstman Street.

	Dr.	Cr.
To balance January 1, 1881	$788 59	
To amount paid for damages	701 25	
By amount received for benefits.....		$4,390 19
To balance December 31, 1881.....	2,900 35	
	$4,390 19	$4,390 19

TABLE I—Continued.

Opening Wilcox Street.

	Dr.	Cr.
To balance January 1, 1881.....	$61 69	
By amount received for benefits.....		$109 03
To balance December 31, 1881.....	47 34	
	$109 03	$109 03

Opening Ensor Street.

	Dr.	Cr.
By balance January 1, 1881.....		$1,701 50
By appropriation, Ordinance No. 43, 1881.....		1,487 22
By amount received for benefits.....		3,014 70
To amount paid for damages.	$4,723 76	
To balance December 31, 1881.....	1,479 66	
	$6,203 42	$6,203 42

TABLE I—Continued.

Opening McHenry Street.

	Dr.	Cr.
By balance January 1, 1881.....		$ 104 67
By amount received for benefits ..		13 04
To balance December 31, 1881.....	$ 117 71	
	$ 117 71	$ 117 71

Opening McKim Street.

	Dr.	Cr.
By balance January 1, 1881.....		$6,547 14
By amount received for benefits ..		2,012 50
To balance December 31, 1881.	$8,559 64	
	$8,559 64	$8,559 64

TABLE I—Continued.

Opening Valley Street.

	Dr.	Cr.
By balance January 1, 1881.....		$2,448 93
By appropriation, Ordinance No. 43, 1881.....		2,392 88
To amount paid for damages.....	$2,709 93	
To balance December 31, 1881.....	2,131 88	
	$4,841 81	$4,841 81

North Street.

	Dr.	Cr.
To balance January 1, 1881.....	$ 166 85	
To amount paid for advertising and surveys.....	472 59	
To amount paid for damages.....	1,354 71	
By amount received for benefits...		$1,286 09
By balance December 31, 1881.....		708 06
	$1,994 15	$1,994 15

TABLE I—Continued.

Opening Broadway.

	Dr.	Cr.
To balance, January 1, 1881.....	$ 996 27	
To amount paid for surveys.....	25 00	
" " damages.....	3,607 30	
By amount received for material sold		$ 145 00
By amount received for benefits....		2,053 12
By balance December 31, 1881.....		2,430 45
	$4,628 57	$4,628 57

Opening Biddle Street.

	Dr.	Cr.
By balance January 1, 1881.....		$ 722 08
By amount received from ground sold		100 00
To amount paid for damages.....	700 00	
To balance December 31, 1881.....	122 08	
	$ 822 08	$ 822 08

TABLE I—Continued.

Opening Marshall Street No. 4.

	Dr.	Cr.
By balance January 1, 1881.....		$ 890 83
By amount transferred from Marshall street No. 5.....		248 78
To amount paid for damages.....	$ 236 96	
To balance December 31, 1881.....	902 65	
	$1,139 61	$1,139 61

Opening Jones Street.

	Dr.	Cr.
By balance January 1, 1881.....		$ 149 00
To amount paid for advertising....	$ 62 79	
To balance December 31, 1881.....	86 21	
	$ 149 00	$ 149 00

TABLE I—Continued.

Opening a Court between Postoffice Avenue and Holliday Street.

	Dr.	Cr.
To amount paid for advertising and surveys	$350 82	
By amount received from benefits		$ 50 00
By balance December 31, 1881		300 82
	$350 82	$350 82

Closing Mount Hope Lane.

	Dr.	Cr.
To balance January 1, 1881	$199 50	
To amount paid for damages	140 00	
By amount received for benefits		$505 50
To balance December 31, 1881	166 00	
	$505 50	$505 50

TABLE I—Continued.

Opening McElderry Street.

	Dr.	Cr.
To balance January 1, 1881.....	$637 11	
By amount received for benefits.....		$2,521 26
To balance December 31, 1881.....	1,884 15	
	$2,521 26	$2,521 26

Closing a 20-foot Alley between Edmondson and Harlem Avenues.

	Dr.	Cr.
To balance January 1, 1881.....	$181 00	
To amount paid for damages.....	252 00	
By amount received for benefits.....		$520 00
To balance December 31, 1881.....	87 00	
	$520 00	$520 00

TABLE I—Continued.

Opening Chase Street.

	Dr.	Cr.
By balance January 1, 1881.....		$ 307 42
By appropriation, Ordinance No. 43, 1881.....		1,750 54
By amount received for benefits....		4,494 80
To amount paid for damages.....	$6,750 66	
By balance December 31, 1881.....		197 90
	$6,750 66	$6,750 66

Opening John Street.

	Dr.	Cr.
By amount received for benefits.....		$ 2 00
To balance January 1, 1881.....	$892 96	
By balance December 31, 1881.....		890 96
	$ 892 96	$892 96

TABLE I—Continued.

Closing a Lane from Madison Avenue to Eutaw Street.

	Dr.	Cr.
To balance January 1, 1881	$157 81	
To amount paid for damages	112 00	
By balance		$ 20 00
By amount received from benefits		352 00
To balance December 31, 1881	102 19	
	$372 00	$372 00

Opening Wolf Street.

	Dr.	Cr.
By balance January 1, 1881		$1,538 42
By amount received for benefits		4,583 05
To amount paid for damages	$ 20 00	
To balance December 31, 1881	6,101 47	
	$6,121 47	$6,121 47

TABLE I—Continued.

Opening Robert Street.

	Dr.	Cr.
By balance January 1, 1881.....		$2,673 23
By appropriation, Ordinance No. 43, 1881.....		24,846 15
By amount received for benefits.		7,837 62
To amount paid for damages	$35,550 00	
By balance December 31, 1881		193 00
	$35,550 00	$35,550 00

TABLE I—Continued.

Opening Addison Alley.

	Dr.	Cr.
To balance January 1, 1881	$ 39 75	
To amount paid for advertising	1 00	
By balance December 31, 1881		$ 40 75
	$ 40 75	$ 40 75

Opening Vincent Alley.

	Dr.	Cr.
To amount paid for damages	1,046 37	
By balance January 1, 1881		$ 238 31
By amount received for benefits		982 96
To balance December 31, 1881	$ 174 90	
	$1,221 27	$1,221 27

TABLE I—Continued.

Opening Marshall Street No. 5.

	Dr.	Cr.
By balance January 1, 1881.....		$ 116 71
By appropriation, Ordinance No. 43, 1881..		3,699 73
By amount received for benefits.....		771 00
To amount paid for damages.....	$4,266 66	
To amount transferred to Marshall street No. 4.....	248 78	
To balance December 31, 1881.....	72 00	
	$4,587 44	$4,587 44

Opening Covington Street.

	Dr.	Cr.
To balance January 1, 1881.....	$700 76	
To amount paid auctioneers and surveys.....	415 20	
By balance December 31, 1881.....		$1,115 96
	$1,115 96	$1,115 96

TABLE I—Continued.

Amount paid for Surveys, Advertising and Auctioneers' Commissions for Sundry Streets.

	Dr.	Cr.
Patapsco street, opening	$ 30 00	
Collington avenue, "	65 76	
Burke street, "	58 05	
Race street, "	215 19	
Cannon street, "	63 20	
Rutter alley, "	72 00	
Hanson Mill road, closing	30 00	
Hargrove alley, opening	27 00	
Belvidere street, closing	137 82	
Lanvale road, "	283 33	
Addison alley, "	248 61	
Towson street, opening	90 00	
Scott street, "	464 03	
Russell street, "	200 00	
Calvert street, "	32 80	
Carey street, "	511 99	
Clement street, "	176 00	
Hoffman street, "	54 50	
Fourth street, closing	72 10	
Tenant street, opening	358 78	
Balance December 31, 1881		$3,191 16
	$3,191 16	$3,191 16

TABLE I—Continued.

Paving Fourth Street.

	Dr.	Cr.
To balance January 1, 1881.....	$1,035 17	
By amount received from the City Collector.....		$ 117 56
By balance December 31, 1881.....		917 16
	$1,035 17	$1,035 17

Paving Chester Street.

	Dr.	Cr.
To balance January 1, 1881.	$3,446 02	
By amount received from the City Collector.....		$ 109 46
By balance December 31, 1881.....		3,336 56
	$3,446 02	$3,446 02

TABLE I—Continued.

Paving Truxton Street.

	Dr.	Cr.
To balance January 1, 1881	$ 199 38	
To amount paid for paving and surveys	891 46	
By amount received from the City Collector		97 16
By balance December 31, 1881		993 68
	$1,090 84	$1,090 84

Paving Sterrett Street.

	Dr.	Cr.
To balance January 1, 1881	$ 180 18	
To amount paid for paving and survey	208 55	
By amount received from the City Collector		$ 251 98
By balance December 31, 1881		136 75
	$ 388 73	$ 388 73

TABLE I—Continued.

Paving Frederick Avenue.

	Dr.	Cr.
To balance January 1, 1881.....	$2,332 24	
By amount received from the City Collector.....		$ 78 53
By balance, December 31, 1881.. ..		2,253 71
	$2,332 24	$2,332 24

Paving Fayette Street.

	Dr.	Cr.
To balance January 1, 1881	$2,028 03	
To amount paid for paving.....	503 91	
By amount received from the City Collector.....		$ 658 91
By balance December 31, 1881.....		1,873 03
	$2,531 94	$2,531 94

TABLE I—Continued.

Paving Castle Street.

	Dr.	Cr.
By balance January 1, 1881		$ 407 25
By amounts received from City Collector		1,129 22
To amount paid for paving	$1,289 73	
To balance December 31, 1881	246 74	
	$1,536 47	$1,536 47

Paving Foster Alley.

	Dr.	Cr.
To balance January 1, 1881	$719 93	
By amount received from the City Collector		$ 609 87
By balance December 31, 1881		110 06
	$719 93	$719 93

TABLE I—Continued.

Paving Oliver Street.

	Dr.	Cr.
To balance January 1, 1881	$5,457 91	
To amount paid for paving	10,177 88	
By amount received from the City Collector		$10,206 38
Balance December 31, 1881		5,429 41
	$15,635 79	$15,635 79

Paving Eager Street.

	Dr.	Cr.
To balance January 1, 1881	$420 98	
By amount received from the City Collector		$432 00
To balance December 31, 1881	11 02	
	$432 00	$432 00

TABLE I—Continued.

Paving Randall Street.

	Dr.	Cr.
To balance January 1, 1881.....	$10,090 62	
By amount received from the City Collector.....		$690 08
By balance December 31, 1881....		9,400 54
	$10,090 62	$10,090 62

Paving Bethel Street.

	Dr.	Cr.
To balance January 1, 1881.....	$308 13	
By amount received from the City Collector.....		$341 14
To balance December 31, 1881.....	33 01	
	$341 14	$341 14

TABLE I—Continued.

Paving Jackson Street.

	Dr.	Cr.
To balance January 1, 1881	$5,720 70	
By amount received from the City Collector.....		$5,639 88
By balance December 31, 1881.....		80 82
	$5,720 70	5,720 70

Paving Light Street.

	Dr.	Cr.
To amount paid for paving.....	$3,650 07	
By amount received from the City Collector.....		$2,273 98
By balance December 31, 1881.....		1,376 09
	$3,650 07	$3,650 07

TABLE I—Continued.

Paving Vincent Alley.

	Dr.	Cr.
To balance January 1, 1881	$300 69	
By amount received from the City Collector		$ 39 86
By balance December 31, 1881		260 83
	$300 69	$300 69

Paving Pitcher Street.

	Dr.	Cr.
To balance January 1, 1881	$363 17	
By amount received from the City Collector		$148 60
By balance December 31, 1881		214 57
	$363 17	$363 17

TABLE I—Continued.

Paving Mason Alley.

	Dr.	Cr.
To balance January 1, 1881	$46 88	
To amount paid for paving	36 07	
By amount received from the City Collector		$102 84
To balance December 31, 1881	19 89	
	$102 84	$102 84

Paving Covington Street.

	Dr.	Cr.
To balance January 1, 1881	$464 62	
By amount received from the City Collector		$307 89
By balance December 31, 1881		156 73
	$464 62	$464 62

TABLE I—Continued.

Paving Beason Street.

	Dr.	Cr.
To balance January 1, 1881	$144 30	
To amount paid for paving	91 78	
By amount received from the City Collector		$ 277 31
To balance December 31, 1881	41 23	
	$277 31	$277 31

Paving Marshall Street.

	Dr.	Cr.
To balance January 1, 1881	$1,861 60	
By amount received from the City Collector		$ 968 16
By balance December 31, 1881		893 44
	$1,861 60	$1,861 60

TABLE I—Continued.

Paving Baker Street No. 3.

	Dr.	Cr.
By balance January 1, 1881		$398 11
To amount paid for paving	$ 41 95	
To balance December 31, 1881	356 16	
	$ 398 11	$ 398 11

Paving Courtland Street.

	Dr.	Cr.
To balance January 1, 1881	$ 69 38	
To amount paid for paving	10 53	
By amount received from the City Collector		$ 45 84
By balance December 31, 1881		34 07
	$ 79 91	$79 91

TABLE I—Continued.

Paving Townsend Street.

	Dr.	Cr.
To balance January 1, 1881	$90 28	
To amount paid for paving	369 09	
By amount received from the City Collector		$586 97
To balance December 31, 1881	127 60	
	$586 97	$586 97

Paving Washington Street.

	Dr.	Cr.
By balance January 1, 1881		$4,261 62
By amount received from the City Collector		334 89
To amount paid for paving	$3,910 88	
To balance December 31, 1881	685 63	
	$4,596 51	$4,596 51

TABLE I—Continued.

Paving Lanvale Street.

	Dr.	Cr.
By balance January 1, 1881		$ 316 75
By amount received from the City Collector		586 97
To amount paid for paving	$324 80	
To balance December 31, 1881	578 92	
	$903 72	$ 903 72

Paving Pratt Street.

	Dr.	Cr.
To balance January 1, 1881	$36,723 93	
By amount received from City Collector		$22,053 43
By balance December 31, 1881		14,670 50
	$36,723 93	$36,723 93

TABLE I—Continued.

Paving St. Paul Street.

	Dr.	Cr.
By balance January 1, 1881.....		$ 986 04
By amount received from the City Collector.....		938 05
To amount paid for paving.....	$4,177 25	
By balance December 31, 1881.....		2,253 16
	$4,177 25	$4,177 25

Paving Calvert Street.

	Dr.	Cr.
By balance January 1, 1881		$ 763 33
By amount received from the City Collector.....		2,069 38
To amount paid for paving.....	$2,800 67	
To balance December 31, 1881.	32 04	
	$2,832 71	$2,832 71

TABLE I—Continued.

Paving Saratoga Street.

	Dr.	Cr.
To balance January 1, 1881.	$680 17	
To amount paid for paving.....	391 27	
By amount received from the City Collector.....		$ 318 30
By balance December 31, 1881.....		753 14
	$1,071 44	$1,071 44

Paving Mount Street.

	Dr.	Cr.
To balance January 1, 1881.....	$ 8 92	
To amount paid for paving.....	984 54	
By amount received from the City Collector.....		$362 52
By balance December 31, 1881..		630 94
	$993 46	$993 46

TABLE I—Continued.

Paving a 15-foot alley from Presstman Street to Laurens Street.

	Dr.	Cr.
To balance January 1, 1881.....	$ 238 81	
By amount received from the City Collector.....		$ 273 43
To balance December 31, 1881.....	$ 34 62	
	$ 273 43	$ 273 43

Paving Wilkens Avenue.

	Dr.	Cr.
By balance January 1, 1881.....		$ 412 49
By amount received from the City Collector.....		$ 77 15
To amount paid for paving.....	$3,255 93	
By balance December 31, 1881.....		$2,766 29
	$3,255 93	$3,255 93

TABLE I—Continued.

Paving North Avenue.

	Dr.	Cr.
By balance January 1, 1881		$25,397 07
By amount received from the City Collector.....		15,473 56
To amount paid for paving.....	$66,761 18	
By Balance December 31, 1881.....		25,890 55
	$66,761 18	$66,761 18

Paving West Street.

	Dr.	Cr.
By appropriation, Ordinance No. 43, 1881.....		$45 86
To amount paid for paving.....	$15 29	
To balance December 31, 1881.....	30 57	
	$45 86	$45 86

TABLE I—Continued.

Paving Central Avenue.

	Dr.	Cr.
By balance January 1, 1881		$ 223 88
By amount received from the City Collector		1 31
To amount paid for paving	$163 34	
To balance December 31, 1881	61 85	
	$ 225 19	$ 225 19

Paving O'Donnell Street.

	Dr.	Cr.
By balance January 1, 1881		$ 287 23
By amount received from the City Collector		$ 401 47
To amount paid for paving	$594 30	
To balance December 31, 1881	94 40	
	$688 70	$ 688 70

TABLE I—Continued.

Paving Henry Street.

	Dr.	Cr.
By balance January 1, 1881.....		$ 688 95
By amount received from City Collector		687 75
To amount paid for paving.....	$1,195 98	
To balance December 31, 1881...._	180 72	
	$1,376 70	$1,376 70

Paving Gilmor Street.

	Dr.	Cr.
By balance January 1, 1881.....		$1,219 48
By amount received from City Collector		451 42
To amount paid for paving.....	$1,457 99	
To balance December 31, 1881.....	212 91	
	$1,670 90	$1,670 90

TABLE I—Continued.

Paving Ann Street.

	Dr.	Cr.
By balance January 1, 1881.....		$ 127 52
By amount received from City Collector		522 59
To amount paid for paving.....	$ 559 37	
To balance December 31, 1881.	90 74	
	$ 650 11	$ 650 11

Paving Plum Alley.

	Dr.	Cr.
By balance January 1, 1881.....		$ 399 10
By amount received from City Collector		352 95
To amount paid for paving.....	$652 70	
To balance December 31, 1881.....	99 35	
	$752 05	$ 752 05

TABLE I—Continued.

Paving Cole Street.

	Dr.	Cr.
By balance January 1, 1881.....		$1,457 79
By amount received from City Collector		737 45
To amount paid for paving.....	$1,923 21	
To balance December 31, 1881.....	272 03	
	$2,195 24	$2,195 24

TABLE I—Concluded.

Amount paid for paving streets, and also the amount received from the City Collector, payment by sundry parties.

	Dr.	Cr.
Hoffman street No 1		$ 1,396 39
Baltimore street		25,188 04
Lombard street		8,874 24
West Falls avenue	$ 10 00	
Canton avenue		174 42
Bounty Lane		18 60
Sarah Ann street		190 99
Valley street	2,586 14	575 39
Bloom street	1,322 33	764 25
Sterrett alley	147 85	309 24
Sharp street	5,630 30	6,043 02
Elliott street	618 80	585 90
Port street	439 38	512 85
Montgomery street	1,114 73	1,286 62
Claret alley	642 14	489 74
Goodman alley	555 80	603 51
China street	671 29	73 88
Binney street	1,515 57	20 37
Fawn street	15 00	
Interest on paving account		11,966 67
	$15,269 33	$59,074 12

TABLE I—Continued.

Paving Cole Street.

	Dr.	Cr.
By balance January 1, 1881.....		$1,457 79
By amount received from City Collector		737 45
To amount paid for paving.....	$1,923 21	
To balance December 31, 1881.....	272 03	
	$2,195 24	$2,195 24

TABLE I—Concluded.

Amount paid for paving streets, and also the amount received from the City Collector, payment by sundry parties.

	Dr.	Cr.
Hoffman street No 1		$ 1,396 39
Baltimore street		25,188 04
Lombard street		8,874 24
West Falls avenue	$ 10 00	
Canton avenue		174 42
Bounty Lane		18 60
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Valley street	2,586 14	575 39
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Sharp street	5,630 30	6,043 02
Elliott street	618 80	585 90
Port street	439 38	512 85
Montgomery street	1,114 73	1,286 62
Claret alley	642 14	489 74
Goodman alley	555 80	603 51
China street	671 29	73 88
Binney street	1,515 57	20 37
Fawn street	15 00	
Interest on paving account		11,966 67
	$15,269 33	$59,074 12

ANNUAL REPORT

OF THE

CITY COLLECTOR,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881

REPORT.

TAX DEPARTMENT—CITY COLLECTOR'S OFFICE,

Baltimore, January 2, 1882.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I have the honor to submit to you the report of this department for the fiscal year ending December 31, 1881.

The amount received from all sources during the year was $3,868,686.09.

On the levy of 1877—present basis $234,524,150—the total collections amount to $99\frac{60}{100}$ per cent.

On the levy of 1878—present basis $228,176,391—the total collections amount to $99\frac{15}{100}$ per cent.

On the levy of 1879—present basis $233,533,780—the total collections amount to $92\frac{57}{100}$ per cent.

On the levy of 1880—present basis $240,036,122—the total collections amount to $89\frac{38}{100}$ per cent.

On the levy of 1881—present basis $247,230,189—the total collections amount to $74\frac{59}{100}$ per cent., and deducting the amount of plant, $411,147, on which no city taxes were collected, the percentage will be $74\frac{91}{100}$ per cent.

Table A shows the monthly collections of both city and State taxes for the past fiscal year, amounting in the aggregate to $4,295,189.77. Of this sum, the city's proportion was $3,868,686.09, and the State's $426,503.68.

Table B gives the basis of the various levies on which collections have been made during the past year, with the amount collected on each levy; also, the gross amount received for opening, closing and widening streets and alleys, and for paving streets, &c.

By this table it will be seen that there has been collected—

On account of taxes in arrears	$1,170,204 39
On account of levy 1881	2,533,152 48
For opening, closing, widening streets, &c.	33,472 07
For paving and grading streets, &c	131,857 15
Total collections for the city	$3,868,686 09

Table C shows the rate of tax per hundred dollars for the various items of the several levies, from 1876 to 1881, inclusive.

Table D shows the monthly receipts on the several levies, from 1876 to 1881, inclusive; also, for opening and closing streets, alleys, &c., and for paving streets, &c.

Table E shows the amount of taxes collected during the past year, divided according to the separate items of the several levies upon which they were collected;

the amount of interest received on account of taxes in arrears, and the amount of discount allowed for prompt payment of taxes.

Table F gives the basis, the basis collected upon, and the percentage collected within each year on levy of 1876, to October 31, and levies of 1877, 1878, 1879, 1880, to December 31, and of levy of 1881, from date of levy to December 31, 1881.

Table G shows the percentage collected monthly, from January 1, 1881, to May, 1881, on levy of 1880, and on levy of 1881, from date of levy to December 31, 1881, inclusive.

Table H is a detailed statement of the amount received for opening, closing and widening streets and alleys, from January 1, 1881, to December 31, 1881, which aggregates $33,472.07.

Table I gives a statement of the amount received during the fiscal year for paving streets, &c., amounting to $131,857.15.

By reference to the details given in table B, it will be observed that there was collected 74$\frac{59}{100}$ per cent. of the levy 1881, which is a considerable increase on the percentage collected in previous years. Of the taxes in arrears, there was collected $1,170,204.39, as against $1,338,428.44 in 1880, and $1,431,814.77 in 1879. The smaller amount collected in 1881 is explained by the fact of the gradual diminution, from various causes, of the taxes in arrears. In 1878 they amounted to $3,244,216.58; in 1879, to $2,308,421.30; in 1880, to $1,700,802 80, and in 1881, to $1,466,976.49, or consider-

ably less than one-half the arrearages of 1878. The action of the Council in passing a joint resolution, requiring the collection of personal taxes in arrears within a year from the time they fall due, has had the effect of covering into the treasury a considerable amount, which, but for this action, would probably have been lost. A similar resolution with regard to the arrears of taxes on real estate would, I am confident, accomplish equally beneficial results. No valid reason can be advanced why taxes on real estate should be permitted to run for four years, or even for two years, before proceeding to enforce their collection. Ever since I have been in charge of this department I have contended that there should be a closer collection of the taxes on real estate, as being not only to the interest of the city, but also to that of the taxpayers, to whom the enforcement of prompt payment would save many vexatious expenses, which add to his burden, and which he is not always in a condition to incur.

Although it is generally known that the Collector has the power to proceed at any time against property, both real and personal, for taxes in arrears, the custom that has grown up among us, of allowing real estate taxes in default to run for three or four years, has led many persons to imagine that, by toleration, it has acquired the force of law. They consequently believe that they have that time in which to pay; while there are others who are fully able to pay, who take advantage of this unwise indulgence. I would recommend that action be taken by the Council, requiring that all real estate taxes in arrears for 1879 and 1880 shall be

collected within the present year; that the taxes for 1881 and 1882 shall be collected during the year 1883, and that the same rule shall be observed in all succeeding years.

I also once more call attention—as I and my predecessors in office have done for years past—to the necessity of renumbering consecutively the houses of the city; the imperfect numbering existing at present, as well as the frequent duplication of numbers, being a constant source of embarrassment to this office, as well as of annoyance to citizens and taxpayers.

I have the honor to be,

Very respectfully, yours, &c.,

CHARLES WEBB, *Collector.*

TABLES.

TABLE A.

Total City and State Taxes received from January 1, 1881, *to December* 31, 1881, *inclusive.*

1881.	CITY.	STATE.	TOTAL.
January	$385,272 88	$48,239 51	$433,512 39
February	145,757 91	15,439 12	161,197 03
March	117,051 51	8,696 97	125,748 48
April	139,865 94	8,052 68	147,918 62
May	1,867,564 78	204,697 10	2,072,261 88
June	179,810 38	20,237 70	200,048 08
July	160,973 56	14,517 43	175,490 99
August	145,593 75	27,848 89	173,442 64
September	104,309 08	10,377 99	114,687 07
October	171,807 90	21,137 38	192,945 28
November	153,750 35	11,792 15	165,542 50
December	296,928 05	35,466 76	332,394 81
	$3,868,686 09	$426,503 68	$4,295,189 77

TABLE B.

Recapitulation of Taxes collected from January 1, 1881, *to December* 31, 1881, *on Levies of* 1876, 1877, 1878, 1879, 1880 *and* 1881.

	Basis.	Rate per $100	Tax.	Discount.	Net Tax.	Interest.	Total, including Interest and Discount.
1876.							
Direct.....	$ 103,232	180	$ 1,858 17	.....	$ 1,858 17	$ 493 89	$ 2,352 06
1877.							
Real.....	1,140,473	175	19,958 26	.....	19,958 26	4,004 19	23,962 45
Personal.	207,339	175	3,628 43	.....	3,628 43	706 99	4,335 42
1878.							
Real.....	12,798,714	190	243,175 54	.....	243,175 54	34,163 61	277,339 15
Personal..	565,579	190	10,745 99	.....	10,745 99	1,655 07	12,401 06
1879.							
Real.....	12,008,606	150	180,129 08	.....	180,129 08	15,119 31	195,248 39
Personal..	2,194,848	150	32,922 71	.....	32,922 71	3,017 23	35,939 94
1880.							
Real.....	36,561,913	137	500,898 22	.....	500,898 22	5,413 47	506,311 69
Personal..	8,077,073	137	110,655 91	.....	110,655 91	1,658 32	112,314 23
	$73,657,777						$1,170,204 39

1881.								
Real.....	$136,118,698	137	1,864,826	16	$74,727 49	1,790,098 67	.....	1,864,826 16
Personal.	48,782,942	137	668,326	32	41,419 70	626,906 62	.....	668,326 32
	$184,901,640				$116,147 19	$3,520,977 60	$66,232 08	$3,703,356 87
	$258,559,417							
Opening, closing and widening streets and alleys.....								33,472 07
Paving streets and alleys.....								131,857 15
								$3,868,686 09

TABLE C.

Rate of Tax per Hundred Dollars.

	1876	1877	1878	1879	1880	1881
Internal Improvements	7	7	...	...	...	...
Police Department	21	22	26	23	20	22
Certain Expenses	6	11	10	8	9	10
Criminal Court	3	...	...	...	...	...
Public Schools	19	19	17	18	14	17
City Poor	5	6	7	5	6	9
City Direct	86	71	67	69	53	55
Miscellaneous Stock	27	30	52	23	31	24
Opening Streets	3	6	11	4	4	..
City Hall Sinking Fund	2	2	...	..	...	..
Funded Debt of 1868	1	1	...	...	...	...
	180	175	190	150	137	137

TABLE D.

Monthly Receipts of Taxes on the several Levies from 1876 *to* 1881, *inclusive, for Opening and Closing Streets and Alleys, and for* **paving** *Streets and Alleys, from* ***January*** 1, 1881, *to December* 31, 1881.

	1876.	1877.	1878.	1879.	1880.	1881.	Opening Streets and Alleys.	Paving Streets and Alleys.	TOTAL.
January	320 71	3,097 49	26,044 43	35,773 51	315,773 08	.....	$2,869 05	$1,394 61	$385,272 88
February	350 02	1,070 84	33 792 55	20,174 81	83,965 30	.....	1,060 75	5,343 64	145.757 91
March	137 81	1,798 38	40,463 16	14.993 94	23,986 27	.....	1,666 66	34 005 29	117,051 51
April	254 14	12,689 39	45,161 29	19,300 05	23,818 66	.....	1,056 85	37,585 56	139,865 94
May	.....	2,226 41	31,689 15	16,302 05	21,725 06	1,772,977 53	10,566 19	12,078 39	1,867,564 78
June	.....	2,644 37	19,908 75	12,999 22	24,386 06	107,906 28	3,573 16	8.392 54	179,810 38
July	.....	540 87	20,468 33	32,409 78	33,212 64	67,414 88	4,205 42	2.721 64	160,973 56
August	364 18	292 07	19,607 31	11,366 92	13.272 53	91.293 12	3.112 90	6,284 72	145,593 75
September	.....	185 21	13.561 42	10,319 20	9,528 04	65,270 10	2,885 66	2.559 45	104,309 08
October	925 20	24 74	15,856 29	18,283 71	25.526 05	102,403 85	1,872 69	6,915 37	171,807 90
November	.....	125 45	9,776 11	14.952 49	22,651 74	100,005 80	356 09	5,882 67	153,750 35
December	.....	3,602 65	13,411 42	24,312 65	20,780 49	225,880 92	246 65	8,693 27	296,928 05
	$2,352 06	$28,297 87	$289,740 21	$231,188 33	$618,625 92	$2,533,152 48	$33,472 07	$131,857 15	$3,868,686 09

TABLE E.

Division of Taxes, received from January 1, 1881, to December 31, 1881.

	1876.	1877.	1878.	1879.	1880.	1881.	Total.
Internal Improvements	$72 25	$943 49					$ 1,015 74
State Police	216 80	2,965 17	$34,747 16	$32,667 93	$89,277 98	$388,132 22	548,007 26
Certain Expenses	61 93	1,482 60	13,364 28	11,362 75	40,175 09	176,423 76	242,870 41
Criminal Court	30 97						30 97
Public Schools	196 15	2,560 84	22,719 30	25,566 23	62,494 57	299,920 36	413,457 45
City Poor	51 61	808 69	9,354 98	7,101 74	26,783 37	158,781 35	202,881 74
Direct Tax	887 78	9,569 46	89,540 77	98,003 81	236,586 64	970,330 62	1,404,919 08
Miscellaneous Stocks	278 74	4,043 43	69,494 33	32,667 94	138,380 88	423,416 98	668,282 30
Opening Streets	30 97	808 69	14,700 71	5,681 39	17,855 60		39,077 36
City Hall Sinking Fund	20 65	269 56					290 21
Funded Debt of 1868	10 32	134 76					145 08
	$1,858 17	$23,586 69	$ 253,921 53	$213,051 79	$611,554 13	$2,417,005 29	$3,520,977 60
Interest	493 89	4,711 18	35,818 68	18,136 54	7,071 79		66,232 08
Discount						116,147 19	116,147 19
	$2,352 06	$28,297 87	$289,740 21	$231,188 33	$618,625 92	$2,533,152 48	$3,703,356 87
Opening, Closing and Widening Streets and Alleys							33,472 07
Paving Streets and Alleys							131,857 15
							$3,868,686 09

TABLE F.

Of Percentage collected within the year on Levy of 1876, to October 31, and Levies of 1877, 1878, 1879, 1880, to December 31; also on Levy of 1881, from date of Levy to December 31; also on Basis of 1880, to December 31, 1881.

	BASIS.	BASIS COLLECTED UPON.	PER CENT.
1876	$228,816,110	$124,618,703	54.46
1877	256,105,341	161,947,188	63.23
1878	249,266,595	151,982,867	60.97
1879	244,043,181	160,128,883	65.61
1880	241,980,638	169,896,579	70.21
1881, to Dec. 31, 1881	247,230,189	184,901,640	74.79
1880, to Dec. 31, 1881	240,036,122	214,535,565	89.38

TABLE G.

Showing the Percentage collected monthly from January 1, 1881, to May 1, 1881, on Levy of 1880; and on Levy of 1881, from May to December 31, 1881, inclusive.

	MONTHS.	BASIS COLLECTED UPON.	PER CENT.
1880. $240,036,122	January	$23,049,131	9.60
	February	6,098,363	2.54
	March	1,733,488	.72
	April	1,712,895	.71
		$129,414,418	52.34
1881. $247,230,189	May	7,876,371	3.19
	June	4,920,795	1.99
	July	6,663,731	2.70
	August	4,764,240	1.93
	September	7,474,734	3.02
	October	7,299,693	2.95
	November	16,487,658	6.67
	December	$184,901,640	74.79

Basis, 1881	$247,230,189
Less amount of plants	411,147
	$246,819,042

Amount collected, $184,901,640; equal to $74\frac{91}{100}$ per cent.

TABLE H.

Summary of Receipts for paving streets and alleys from January 1, 1881, to December 31, 1881.

Paving Anne street	$	522 59
" Calvert street		2,069 38
" St. Paul street		938 05
" Castle street		1,129 22
" Eager street		432 00
" O'Donnell street		401 47
" Pratt street		22,053 43
" Covington street		307 89
" Marshall street		968 16
" Fayette street		658 91
" Washington street		334 89
" Baltimore street		25,188 04
" Lombard street		8,874 24
" Sarah Ann street		190 99
" Valley street		575 39
" Henry street		687 75
" Sterrett street		251 98
" Randall street		690 08
" Hoffman street		1,396 39
" Pitcher street		148 60
" Bloom street		764 25
Amount carried forward	$	68,583 70

TABLE H—Continued.

	Amount brought forward	$68,583 70
Paving	Jackson street	5,639 88
"	Saratoga street	318 30
"	Beason street	277 31
"	Townsend street	586 97
"	Fourth street	117 56
"	Oliver street	10,206 38
"	Mount street	362 52
"	Lanvale street	586 97
"	Chester street	109 46
"	Cole street	737 45
"	Gilmor street	451 42
"	Truxton street	97 16
"	Sharp street	6,043 02
"	Elliott street	585 90
"	Port street	512 85
"	Bethel street	341 14
"	Light street	2,273 98
"	Montgomery street	1,286 62
"	Presstman street	2,026 79
"	Binney street	20 37
"	China street	73 88
"	North avenue	15,473 56
"	Central avenue	1 31
	Amount carried forward	$116,714 50

TABLE H—Concluded.

Amount brought forward	$116,714 50
Paving Frederick avenue	78 53
" Wilkens avenue	77 15
" Canton avenue	174 42
" Foster alley	609 87
" Mason alley	102 84
" Plum alley	352 95
" Vincent alley	39 86
" Sterrett alley	309 24
" Goodman alley	603 51
" Clarett alley	489 74
" Bounty lane	18 60
" 15-foot alley	273 43
Recurbing Courtland street	45 84
Interest on paving	11,966 67
	$131,857 15

TABLE I.

Summary of Receipts for opening, closing and widening streets and alleys, from January 1, 1881, to December 31, 1881.

Opening	Wolfe street	$4,583 05
"	Chase street	4,494 80
"	Wilcox street	109 03
"	McHenry street	13 04
"	McElderry street	2,521 26
"	Robert street	7,837 62
"	Presstman street	2,363 40
"	Marshall street	771 00
"	John street	2 00
"	Ensor street	3,014 70
"	Broadway	2,053 12
"	McKim street	2,012 50
"	North street	1,286 09
"	Vincent alley	982 96
"	alley from Postoffice avenue to Holliday street	50 00
Closing	Mount Hope lane	505 50
"	lane between Presstman street and North avenue	352 00
"	alley from Fulton to Bruce street	520 00
		$33,472 07

ANNUAL REPORT

OF THE

HARBOR BOARD,

TO THE

Mayor and City Council of Baltimore,

FOR THE

Fiscal Year Ending December 31st, 1881.

MEMBERS OF THE HARBOR BOARD OF BALTIMORE.

HON. WM. PINKNEY WHYTE, Mayor,
PRESIDENT EX-OFFICIO.

JAMES S. WOODSIDE, SECRETARY.

JOHN W. McCOY,
WM H. SKINNER,
EXECUTIVE COMMITTEE.

ALEXANDER JONES,

ROBERT T. BALDWIN,

JAMES BOND.

REPORT.

OFFICE OF THE HARBOR BOARD,

Baltimore, January 2, 1882.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

The undersigned committee respectfully submit the following report of the Harbor Board for the year 1881. The amount of excavated material has been less than that of previous years, owing to the fact of a lessened appropriation for it, and to increased cost of work, due in a great measure to a pending contract offered by the United States Government in our near neighborhood, and for our city's benefit, amounting to two and a quarter million (2,250,000) cubic yards—nearly ten times the amount that our diminished appropriation allowed us to do in 1881.

EXCAVATION IN 1881.

In the year just closed Messrs. Fobes & Co. removed for the Board 150,449 cubic yards of bottom at an aver-

age cost of 18 $\frac{65}{100}$ cents per yard; and Mr. Daniel Constantine removed 93,347 cubic yards at an average cost of 23 $\frac{44}{100}$ cents per cubic yard.

The amount of money appropriated by the city for the harbor was $70,000; of this sum $700 was needed in a special emergency for wharf repairs, $2,836.61 was unspent; so that the year's cost of excavation, tug maintenance, (including ice-breaking by the tug Baltimore) salaries, wages, and all administrative costs of this department, amounted to $[illegible],413.39.

The practical results of this year's excavations have been:

1st. The extension of 19 feet depth on the south side of the Basin to the Port Warden's line, from Johnson's to Shaw's coal piers.

2d. The extension of 22 feet depth, for an increased width of 60 feet up the north side and centre of harbor, from Wehner's wharf to Long Dock and Tyson's or Bixler's wharf.

3d. The removal of the hard shoal off Fort McHenry to a depth of 24 feet, over a triangular area of 33,000 square yards, by which the approach to the harbor is materially widened.

4th. The removal, down to 12 feet depth, of all lumps and shoals in main channel, Spring Gardens.

5th. The completion of excavation at the head of Basin to 19 feet depth, except for a strip along Light street wharf, where excavation has been thus far impracticable, owing to the constant use of the wharves there.

6th. The annual redredging of the Back Basin to 12 feet depth, and of its approaches to a depth of 14 feet.

7th. The removal of sewer deposits from McClure's, Smith's, Mallory's and Fenhagen's docks, and from foot of Broadway.

8th. The removal to 12 feet depth of the sewer deposits, obstructing approach to the wharves, at foot of Howard and Eutaw streets.

9th. A cut 500 feet long, 40 feet wide and 12 feet deep into the landing at the Marine Hospital.

10th. An irregular cut, 8 to 9 feet in depth, near Winans' wharf.

DUMPING GROUNDS.

The places used with perfect safety to the channel for dumping grounds up to this time, all between Stony Creek and the city, are now as full as they can safely hold; so that hereafter any considerable amount of excavated material we shall be compelled to place behind bulkheads, or have towed out to the deep water of the upper bay. The latter will be the less costly of the two methods, but it will increase the cost of excavation some 10 to 20 per cent.

WHARF REPAIRS.

On the north side of Back Basin the construction of a stone wall was continued to the extent of 225 linear feet, and the repavement of Lancaster street in its rear. Andrew Brown, contractor, was paid in full for this work, $3,450.81.

Long Dock, on the east side, gave way from bad construction, and for 100 feet fell into the water. It was imperatively necessary to repair it at once, and the Board engaged Henry Creagh & Son to strongly rebuild, on a new foundation, 117 feet of new wall, for which has been paid $1,120.95—leaving unpaid as yet $617.27 of the total amount of $1,738.22.

The old wharf pen at the City Yard has been removed, and a substantial pier built there 200 feet long, as a safe and convenient mooring place for the ice-boat Latrobe and the tug Baltimore. Wharves were repaired also at foot of Conway street, on Pratt street near Bowly's wharf, and at South street wharf.

WORK FOR 1882.

To keep the Back Basin and docks at their present depth will require, of excavation, in 1882 ..... 80,000 cu. yds.
Widening the channel on east side of Fell's Point, and between Atlantic and Bollman's wharves, will require 70,000 "
Ship channels—to widen them on east and west side of harbor, will require 150,000 "
The Middle Branch will require ..... 70,000 "

Total excavation necessary in 1882..... 370,000 cu. yds.

This is far less than the average work of previous years. It will cost about $80,000.

The Board would strongly urge the continued extension of the stone bulkhead on the north side of Back Basin.

Several street ends need repair, especially along Light street, and parts of Long Dock, and Bowly's and South street wharves.

The extension of the stone bulkhead at Back Basin will cost for the year about	$5,000
Sundry general wharf repairs	3,000
Total	$8,000

ICE BOAT.

The Latrobe proved herself a first-class ice-breaker last winter, not only in keeping the usual channels open, but in breaking her way through formidable barriers of thick grounded ice off the mouth of Elk river, to maintain the steamboat route through the Chesapeake and Delaware canal. She was steadily at work for two months—the cost of her maintenance throughout the year being $12,499.02. In addition to regular work, the Latrobe was used, under city authority, for eleven trips of the Free Summer Excursion Society—all the expense being borne by the Board, except 25 tons of coal furnished by the society.

The boat has been thoroughly overhauled, her hull painted, two Hancock's Inspirators applied to her, and she now is in perfect working order.

There being small probability of heavy ice this winter, the Board would respectfully ask for $7,000 for her annual maintenance; under any less expenditure the boat cannot be properly cared for.

SUMMARY OF APPROPRIATIONS ASKED FOR 1882.

For harbor use, including all administrative costs		$80,000
For stone bulkhead Back Basin	$5,000	
For sundry wharf repairs	3,000	
		8,000
For ice-boat		7,000

SUMMARY REVIEW OF SIX YEARS' WORK.

In 1875 the city had no harbor to meet the needs of modern commerce. Its water ways were shallow, shoaly, and tortuous. It has now nearly four miles of channels, 24 feet deep, and from 250 feet to 800 feet in breadth; channels 22 feet deep and 300 feet wide for four-fifths of a mile; six acres of area, outside of channels, 24 feet in depth; 14 acres area, 22 feet in depth, and the entire upper harbor, from Light street down to the foot of Thames street, 19 to 20 feet in depth. Below this there is no depth less than 22 feet to east side of Fells' Point.

This work done in six years, from 1876 to 1881, inclusive, has cost, including all administrative expense of salaries, wages, maintenance of tug, and frequent ice-breaking, $563,989.08.

The amount of material dredged and carried away an average distance of six miles, is 3,768,847 cubic yards. A definite notion of this bulk may be had when we state that it is equal to a mass 100 feet wide, 50 feet high, and nearly four miles long.

The first five years' work (3,525,051 cubic yards) cost $497,525.69, or a small fraction over 14 cents per cubic yard.

The "City Yard" system that preceded this Board's work is registered in the city's official reports, as having excavated in the five years, from 1871 to 1875, inclusive, 1,768,574 cubic yards, for which the city paid $746,930.82, or 41½ cents per yard; to say nothing of the wear and tear of a costly equipment for the work then owned by the city. In other words, this Board has in five years done more than twice the work that its predecessor did in five years; and it has been done at one-third the rate of cost. Work that has cost the city less than half a million dollars, would have cost, under the old system, close on to one and a half million dollars.

IMPORTANT WORK BY UNITED STATES GOVERNMENT.

The city's four miles of channels, 24 feet deep, are approached by the Chesapeake bay and Patapsco river, through channels, made by the National Government, amounting to eighteen miles of length. These have hitherto been 24 feet deep. The demands of modern commerce, with its ships of still increasing magnitude, have induced the United States Government to enter vigorously on the work of widening and deepening these all-important water approaches to Baltimore. This city is greatly indebted to Colonel Craighill, U. S. Engineers, for his earnest recommendation for the prompt execution of this work.

That officer is now supervising for the Government a contract to deepen our channel approaches to 27 feet; and to that end, in this season, will excavate the great amount of two and a quarter million (2,250,000) cubic yards.

At this rate two more years will complete the whole work, and then there will be such a depth of water up to Fort McHenry, that great ships can reach there at low tide that cannot enter New York even, except at higher tides.

The value of this Government aid cannot be overestimated as respects the future foreign commerce of this city. To make it practicably available, however, we shall have to meet the Government work by equal water depths inside the harbor.

That work should be begun immediately after this year.

Our four miles of 24 feet channels can be deepened to 27 feet by the excavation of some 600,000 cubic yards.

In addition, other areas will require to be proportionally deepened as the harbor work goes on from year to year.

To meet this greatly important work by the United States, the Board again earnestly calls to it the attention of the City Government.

Respectfully submitted,

JOHN W. McCOY,
WM. H. SKINNER,
Committee.

Approved by the Board:

JAMES S. WOODSIDE, *Secretary.*

Statement of Receipts and Disbursements of the Harbor Board for the year ending December 31, 1881.

	HARBOR.		EXPENSES OF ICEBOAT.		REPAIRS OF WHARVES.		REPAIRS AT CITY DOCK (NEW WALL.)		CROSS STREET WHARF.	
Reappropriation of unexpended balance of 1880, to cover contract								3,611 81		
Appropriations for work of 1881		$70,000 00		$12,000 00		2,000 00				1,000 00
Amount received for use of iceboat, applied to expenses of same, per Resolution No. 273, approved November 1, 1881				500 00						
Amount of Harbor fund transferred to account of Repairs of Wharves, per Resolution No. 4, approved November 28, 1881	$700 00					700 00				
Available money for work of 1881		69,300 00		12,500 00		2,700 00		3,611 81		1,000 00
Expenditures as follows:										
Contracts for Dredging, Repairs at City Dock and Cross Street Wharf	50,256 95						3,450 89		998 92	
Repairs of Wharves (done by Harbor Board)					1,139 54					
Salaries and Wages	13,330 88		6,934 03		1,282 20		160 92			
General Supplies	988 32		2,155 55							
Fuel	958 00		2,052 75							
Repairs to Tug and Iceboat	882 71		1,356 69							
Advertising	46 53									
Balance Unexpended	2,836 61		98		278 26				1 08	
	$69,300 00	$69,300 00	$12,500 00	$12,500 00	$2,700 00	$2,700 00	$3,611 81	$3,611 81	1,000 00	$1,000 00

Statement of Contracts Let and Work Done (Dredging, Cross-street Wharf, Repairs at City Dock and Repairs of Wharves,) during 1881, under Supervision of the Harbor Board.

BY WHOM DONE.	KIND OF WORK.	DATE OF CONTRACT.	PRICES.	WORK DONE.
George C. Fobes & Co....	Dredging.	May 24, 1881.	17 cts. per cubic yard.	19,313 cubic yards.
" "	"	" "	18 " "	44 674 "
" "	"	" "	18¾ " "	69,061 "
" "	"	" "	21¾ " "	17,401 "
Daniel Constantine.....	"	" "	22 " "	76,513 "
" "	"	" "	30 " "	16,834 "
Benjamin Glenn.....	Cross-street wharf.	May 14, 1878.	$1,827.25.	Complet'd, pr alter'd plans, for $998.92.
Andrew Brown.....	Repairs at City Dock, (new wall.)	September 8, 1880	Per Schedule.	Completed.
Harbor Board.....	Pile driving and timber work, (Long Dock.)		$1,017.80.	"
" "	Masonry, (Long Dock.)		$248.17.	"
" "	Wharf, City Yard.		$203.02.	"
" "	Sundry small repairs to wharves.		$228.32.	"

LOCATION OF DREDGING.	APPROXIMATE AREA DREDGED.	DEPTH OF WATER OBTAINED.
South side of Basin.....	54,000 square feet	19 feet.
Harbor and Channels generally.....	135,000 " "	22 "
Channel near Fort McHenry.	270,000 " "	24 "
Middle Branch.....	63,000 " "	12 "
Back Basin and Docks.	423,000 " "	12 to 17 "
Head of Basin.....	90,000 " "	19 "

SUMMARY OF RESULTS.

YEAR.	AREA DREDGED.	AVERAGE DEPTH OF CUTTING	TOTAL EXCAVATION.
1881.....	1,035,000 square feet.	$6\frac{1}{4}$ feet.	243,796 cubic yds.
Total December 31, 1880.....	15,413,700 "	$6\frac{15}{100}$ "	3,525,051 "
Total December 31, 1881.....	16,448,700 "	$6\frac{18}{100}$ "	3,768,847 "

ENGINEER'S REPORT.

REPORT.

ENGINEER'S OFFICE,

HARBOR BOARD OF BALTIMORE,

Baltimore, January 2, 1882.

To the President and Members
of the Harbor Board of Baltimore:

GENTLEMEN:

I have the honor to submit the following "Report of Operations," for the year ending December 31, 1881:

HARBOR.

Appropriation. The appropriation made by the Mayor and City Council for this branch of the service was seventy thousand ($70,000) dollars, which, as usual, *included* the ten or twelve thousand ($12,000) dollars received from the State of Auction Duties. Maryland, from "Auction Duties," as per Public Local Laws of 1872, chapter 249, section 127, and City Code, article 22, section 2. By Joint Resolution of November 28th, 1881,

seven hundred ($700) dollars was transferred from this amount to credit of "Repairs of Wharves," leaving the amount available for harbor, sixty-nine thousand three hundred (69,300) dollars. Of this sum the unexpended balance, on January 1st, 1882, was two thousand eight hundred and thirty-six ($2,836) dollars and sixty-one (61) cents, making total expenditures for the past year on this account, $66,463.39.

Unexpended balance.

Total expenditures.

After the usual and required advertisement for proposals for dredging, contracts were closed on May 24th, with the two lowest bidders, Messrs. Geo. C. Fobes & Co., and Mr. Daniel Constantine, for the removal of about three hundred thousand (300,000) cubic yards, or so much thereof as might be required, or the money at command might permit.

Contracts.

This amount was distributed as follows, and at prices named:

Distribution of work.

Messrs. G. C. Fobes & Co.:

	Cu. Yds.	Per Yd.
From south side of Basin.....	50,000	@17 c.
" harbor and Dredged Channels.....	40,000	@18 c.
" shoal, near Fort McHenry.	100,000	@18¾c.
" Middle Branch.....	15,000	@21¾c.

Mr. Daniel Constantine:

	Cu. Yds.	Per Yd.
From Back Basin and Docks....	75,000	@22c.
" head of Basin.....	20,000	@30c.

These prices are generally high, with the exception of that for excavations on the bar or shoal at harbor mouth, near Fort McHenry, which was, indeed, lower than it proved at all profitable to the contractors to excavate it for.

Cause of increased prices.

The causes for this increase of price were two-fold; the increasing length of towage of material after excavation, which was for the past year, an average of six (6) miles from Fort McHenry, or nearly, if not quite, eight (8) miles from most of the work; and the fact that all the available bidders for our work were looking forward to the unusually large contracts for dredging in the Patapsco, (about two and one-quarter million cubic yards,) to be let by the General Government in July.

As is generally found necessary during the season, minor changes were made in the distribution of work, as given in "allotment" when first made, to meet the requirements of the public interest. More material was taken from Middle Branch, Dredged Channels and Back Basin, and less from head and south side of Basin and Fort McHenry bar. The work at head of Basin was stopped for the reason that all was done that could be done this year without seriously interfering with the trade and commerce of that section; and at Fort McHenry, Messrs. Fobes & Co. completed the desired improvment, by the re-

moval of a much less quantity of material than was estimated.

Fobes & Co.'s work.

Messrs. Fobes & Co. completed the work assigned them on December 15, having excavated and removed 150,439 cubic yards, at an average price of $18\frac{65}{100}$ cents per cubic yard.

Mr. Constantine's work.

Mr. Constantine completed, on December 28, all the work it was found possible to permit him to do, (for reasons as given above) having excavated and removed 93,347 cubic yards, at an average price of $23\frac{44}{100}$ cents per cubic yard.

The excavated material was removed in dump scows, and deposited along the shore below Hawkins' Point

Reference to tabular statements.

The particular areas and amounts dredged at the several localities where dredging was done, are set forth in the appended tabular statement, as nearly as may be, as to "areas." In some cases this is a difficult quantity to measure, more especially at head of Basin, and in Middle Branch, where the work done consists frequently of the removal of isolated lumps or shoal places. The results of the season's work may be generally stated as follows:

Results.

Head of Basin.

All the dredging of "hard bottom" at head of Basin that can be done at present, was completed.

Back Basin.

The Back Basin was redredged to 12 feet depth over its whole area, and the approaches to it at mouth and under draw-

bridge, were cleaned out to 14 and 16 feet depths.

The sewer deposits were removed from McClure's, Smith's, Mallory's and Fenhagen's docks, as also from that at foot of Broadway on east side of city wharf. Sewer deposits.

The depth of 19 feet was extended on south side of Basin, to Port Wardens line, between Johnson's and Shaw's coal piers. South side of Basin.

The depth of 22 feet was extended for an average width of 60 feet up north side and centre of Basin, from Wellner's wharf to about Long Dock and Tyson's (or Bixler's) wharf. Basin.

The hard shoal near Fort McHenry, at mouth of harbor, was excavated to 24 feet depth, over a triangular area about 2,400 by 250 feet. Harbor mouth.

All lumps or shoals having less than 12 feet depth on them were removed from main channel Spring Gardens, (Middle Branch) as were all sewer deposits above this depth, obstructing approaches to wharves at foot of Howard and Eutaw streets. Middle Branch.

A cut 40 feet wide by about 500 feet length, by 12 feet depth, was made into Marine Hospital wharf, and an irregular cut to 8 or 9 feet depth, was made into Dog Pound, near Winans' wharf. Marine Hospital

Areas dredged. The total areas dredged over amount to about 115,000 square *yards*, (23¾ acres) and Total dredging. the total dredging being 243,796 cubic yards, Average depth of cutting. the average depth of cutting was 2$\frac{1}{10}$ yards, or about 6¼ feet.

Cost of work. The total expenditures during the year for harbor account are set forth in detail in the tabular statement appended hereto, and may be said in round numbers to amount to $66,464, of which was paid to contractors and for general administration and supervision, $58,964, and for watchmen, tug maintenance and repairs, including expenses of ice-breaking, $7,500.

Places of deposit. The material excavated during the past year has been deposited along the shore, between the lower side of Hawkins' Point and the mouth of Stony Creek, on the right (or west bank) of the Patapsco. The deposit along this section has now been carried as far out from shore as is safe from movement by winds from "off shore," and there now remains on this side of the river no available place of deposit for scows drawing over 5 or 6 feet. These latter could dump over the same area that the larger scows have used without extending the deposit any further from shore, but for large scows, and indeed for any *large* amount of excavation, with any size of scow, it will hereafter be necessary to tow the material to deep water of the bay, or

to put it behind cribs or bulkheads—all of which will greatly increase the cost of doing that kind of work.

Anchorages.

The buoys marking the several anchorage grounds have been kept in position, and in as good order as their frequent injury by vessels would permit. During December, the small buoys in use during the summer, were replaced for the winter by the large spar buoys, which required very extensive repairs and alterations to anchors, the extra expense of which was paid by the Comptroller, out of monies received from Harbor Masters. Most of the labor, use of tug, scows, &c., is furnished by the Board, and charged to Harbor account, as it can hardly be fairly separated.

Cost of maintaining anchorage grounds.

The proper care and maintenance of the anchorage buoys will cost $500 to $600 annually, and to do it properly and promptly there should be provided a special scow and crane to raise and handle the buoys. The maintenance of the anchorages by properly located marks or buoys is daily becoming of more importance to the commerce of the port; and an appropriation of $2,000 for a scow and steam winch or crane would be a judicious investment. Much of the injury done to the buoys is inflicted in daylight, and can be easily avoided; and as carelessness in this respect entails a considerable expense to the city, I would recommend that the necessary

Crane and Scow needed

Injury to Buoys.

Penalty for injury.

steps be taken to make the injury or displacement of these buoys a penal offence, with a fine attached that would, by its amount, act as effective deterrent against either carelessness or malice.

Obstructions in Harbor.

During December two (2) schooners were sunk in the harbor, near Locust Point—one by collision, and the other not determined, but probably by a combination of overloading and carelessness. One of them was raised and deposited behind sea-wall; the other is at present in process of being raised. The cost to the city of removing these obstructions will be about $1,300, as the owners in one case cannot be found, (that is, within the State,) and in the other, there is, as usual, "no money or property" from which to recover. I would recommend changes in the terms of the law applicable to such cases, and a very large increase in the penalty for failure to remove.

Change of law in regard to wrecks.

OPERATIONS FOR 1882.

Of the original project of the Board, there remains unexecuted (as not hitherto being imperatively required,) about 150,000 cubic yards from the channel extending around the east side of Fell's Point, and along the north side of the lower harbor to Bollman's wharf; and 150,000 yards from the channel to the oil wharves, extending from near the Marine Hospital to Winans' wharves—making a total of about 300,000 cubic yards.

North side of Lower Harbor.

Main Branch.

Fell's Point.

The channel on the east side of Fell's Point and the lower part of channel on north side of lower harbor—say from the P., W. & B. R. R. wharf to Bollman's—should be finished to 24 feet depth; as also should the channel in Main Branch to coal-oil wharves, (now used for fertilizers).

Main Branch.

Ship Channels.

Lower Harbor.

The main ship channels on the east and west sides of lower harbor should be gradually widened, so as ultimately to give 24 feet depth over the whole of the lower harbor, south of a line drawn from Henderson's wharf to Locust Point Ferry on south side.

Back Basin and Docks.

The Back Basin and docks will require the usual amount of dredging to keep down the deposits from sewers and from Jones' Falls and Harford Run. I would, in this connection, call your attention to the importance of excluding (by lateral sewers) all sewage from the Falls, and thoroughly removing all deposits from its bed, at least as far up as Gay-street bridge. Harford Run, which at present is merely a sewer, (and a filthy one,) should be made to cross the Back Basin and discharge its contents by a submerged pipe far out into the Basin. At present, even though the upper portion is diverted, it empties hundreds of tons of decomposed and disgusting matter into a small pond, (City Dock,) and poisons the whole atmosphere of the harbor; whereas, it may be reasonably expected that

Excluding sewage from Jones' Falls.

the evil will be *diminished* if the discharge is made in a large area of deep water. The mouths of Chatsworth Run (really a sewer,) and of Howard-street sewer—Spring Gardens, (Middle Branch)—should also be removed to as great extent as is economically possible.

The Back Basin and docks will require the removal of, say...	80,000 c. yds.
Middle Branch, say.....	70,000 "
Channel on east side Fell's Point, and between Atlantic and Bollman's wharves.	70,000 "
Ship channels, on both sides, from Locust Point, down.....	150,000 "
Making total.....	370,000 "

which will cost about $80,000.

CONSTRUCTION AND REPAIRS OF WHARVES.

Stone wall. Back Basin.

The construction of a stone wall on the north side of the City Dock or Back Basin, on a new foundation of piles and timber, was continued during the year under a contract with Mr. Andrew Brown, who completed 225 linear feet of wall and paving, for which he was paid during the past year..... $3,450 89
And previously..... 1,364 82

Cost.

Making a total of..... $4,815 73

Cross street.

By joint resolution of the Mayor and City Council, the length of Cross-street wharf was

reduced to 125 feet, and a revised agreement made with Mr. Benjamin Glenn, (the original contractor,) under which he completed the wharf, 125 feet long by 22 feet wide, and was paid (including some repairs to the bulkhead, at end of street,) the sum of $998.92.

Long Dock.

During October, about 100 feet in length of the old stone bulkhead, on the east side of Long Dock, suddenly gave way, and with its foundation of timber and piles, was precipitated into the dock. As the wreckage was a serious obstruction to the dock, and the loss of wharf-room a serious loss to the city, immediate steps were taken to repair the damage. The old piles and street-piling were found to be too short for re-use, (their want of length being the principal cause of the failure,) and piles and timbers were purchased as required. Under a contract with Henry Creagh & Son, new foundations have been put in, and 117 feet of new wall built; the old wall being found to be too thin, a heavier wall (4 feet thick) was built, involving the purchase of an additional quantity of stone.

Other portions of old wall should be rebuilt.

The work has been strongly and substantially built, and another overthrow of *this section* need not be apprehended. It would, however, be a matter of ultimate economy to the city, to rebuild the whole of this dock-wall up to Pratt street, as they were not originally built in a proper manner to meet the

present increased requirements of depth of water and loading.

The amounts paid on account of repairs to Long Dock during the past year, aggregate $1,120.95, and there remains yet unpaid, $617.27, making total cost of work, $1,738.22, a considerable portion of which was expended in removing and storing out of the way of traffic the stone, earth and timber of the old bulkhead.

City Yard.

The old and decayed "pen" at the City Yard was removed, and a substantial, narrow pier, two hundred (200) feet long, built in its place, forming a safe and convenient mooring place for the tug Baltimore and the city ice-boat. The cost, exclusive of dredging to accommodate the iceboat, was about $300.

Sundry repairs.

The old wooden bulkhead at foot of Conway street has been repaired, to prevent leakage around sewer pipe; head-logs were replaced or renewed along Pratt street, near Bowly's wharf, and repairs were made to flowing and head-logs on South-street wharf.

WORK FOR 1882.

Stone wall, City Dock.

I would recommend the continuation of the stone bulkhead along north side of Back Basin commenced in 1880, more especially, as

Harford Run.

the old wooden structure has entirely given way near the mouth of Harford Run, and must be rebuilt either of stone or wood.

Some of street-ends, especially along Light street, may need repairs, and parts of Long Dock, Bowly's and South-street wharves will probably want the flouring renewed. Minor repairs.

I would estimate, as required: Estimate for 1882.

For stone wall in Back Basin.....	$5,000 00
For sundry general repairs.....	3,000 00
Total for wharves.....	$8,000 00

ICEBOAT.

The city iceboat was put into commission December 29, 1880, and was actively employed in preventing the obstruction of the commerce of the port, by ice, until late in February, the crew being discharged March 1.

It is believed that this duty was performed to the satisfaction of the public, and to the commercial interests concerned. The ice, especially in the bay, between North Point and Annapolis, was, at times, heavy and troublesome, but in no case was the boat unable to make a passageway through it. About the middle of February, in order to open the route for steamers through the Chesapeake and Delaware Canal, a very heavy ice gorge was broken through at the mouth of the Elk river; this gorge, which consisted of pack ice from the Susquehanna, was "grounded on the river bottom, in about 14 feet water, and extended above the water sur- Ice gorge at mouth of Elk river.

face about 5 feet in height; it was, moreover, filled with large raft timbers, rendering it dangerous to the boats' wheels; a passage was, however, made through, and the steamers on either side of it relieved, without any injury or strain to hull or machinery.

Bark M. & E. Cann.

The bark M. & E. Cann, ashore in the ice near Sharp's Island, was, in conjunction with the State boat "Maryland," relieved of a part of her cargo and towed back to port.

Free Excursion Society.

During the summer eleven (11) trips were made to "Chesterwood" in the interest of the "Free Excursion Society for the Poor," the expenses of which were borne by the city, with the exception of twenty-five (25) tons of coal furnished by the society.

Repairs, &c.

After the winter service was over, the boat was hauled out and the hull cleaned and painted. Two (2) of the largest size Hancock inspirators were also put to provide against any accident to the feed pumps when in active service. The tubes have been replaced in the donkey boiler and slight repairs made to boilers. Most of the painting, caulking, &c., of decks and wood work, is done by the two regular deck hands. The boat was found to be greatly in the way in the anchorage grounds, and upon the completion of a mooring pier strong enough to hold it, was transferred to the City Yard, where it is now tied

up. The hull and machinery are in excellent order, and the boat ready for service at any time.

The want of a hydrant for filling the boilers of this boat, as well as the "Baltimore," from the city water pipes, is greatly felt, and if the City Yard is not to be disposed of, I would recommend that such facilities be furnished. Water plug wanted.

The expenses of the iceboat for the past year have been much larger than for 1880, owing to the fact that it was for two (2) months engaged in ice breaking. As there seems to be no probability of any serious amount of work to do this year, I am of opinion that the sum needed for 1882 would be $7,000. The boat cannot be kept in proper condition for any less. This sum includes expenses of services for the Free Excursion Society. Expenses. Estimate.

I would, in conclusion, express my appreciation of the fidelity and willingness with which I have been seconded by all of the employes of the Board.

Respectfully submitted,

N. H. HUTTON,
Engineer.

ANNUAL REPORT

OF THE

INSPECTOR OF BUILDINGS,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881.

REPORT.

OFFICE INSPECTOR OF BUILDINGS—CITY HALL,

BALTIMORE, January 2, 1882.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

In conformity with the requirement of ordinance, I beg leave to submit herewith the following report of the operations and expenditures of this Department of the City Government during the fiscal year ending December 31st, 1881:

CONSTRUCTION OF NEW SCHOOL HOUSES.

Grammar School No. 7, corner Eastern avenue and Burke street, was completed and accepted in April last, and since then the entire yard has been graded and paved, and an iron railing erected in front, as directed by Resolution No. 5 and Ordinance No. 91.

By Ordinance No. 2, $15,000 was appropriated for the erection of a school house in South Baltimore. This sum was found to be insufficient for such a building as

the requirements of that locality demanded, and a subsequent appropriation of $3,000 additional was made.

A contract was then entered into with Henry R. Curley for such a building as was wanted, to be erected at the northeast corner of Charles and Ostend streets, for the sum of $17,492.88. The building is now under roof, and it is expected to be completed early in the coming Summer.

Ordinance No. 20 appropriated $15,000 for the erection of a public school house in the northeast section of the city, and a lot was selected at the southeast corner of Chew and McDonogh streets. An additional appropriation of $6,000 was then made, and a contract was entered into with Francis T. Gallagher, for a building, according to plans and specifications on file in this office, for the sum of $20,184. The structure is advanced to the first floor of joists, and it is expected to be in readiness for occupancy at the fall session of the public schools.

PRIMARY SCHOOL HOUSE No. 18, ARGYLE AVENUE.

In obedience to Resolution No. 39, appropriating $6,000 for improvements at this school house, I have had such additions and changes made as were necessary for the accommodation of an increased number of pupils. The addition consists of a new building, 49x45 feet, the elevation corresponding in height and style of finish with the adjoining building, and affording two large class-rooms on each of the two floors—say 38x21 feet—well lighted, with sash partitions, and ventilated.

PRIMARY No. 7.

In this school house I have altered the stairways and erected two extra class-rooms, and have put the building in complete repair.

GRAMMAR No. 4

As directed by Resolution No. 250, I have had inside shutters put up at this school house, and the building painted and put in thorough repair.

No. 8, Caroline street, No. 10, Hollins streets, and No. 11, Schroeder and Pierce streets, have all had new roofs, and the houses in all respects thoroughly repainted and repaired.

GRAMMAR No. 12.

By Resolution No. 12, I was directed to have an iron railing erected in front of this school house, which has been substantially done, to my entire satisfaction.

PRIMARY No. 12.

Resolution No. 146 directed me to have inside shutters put up in this school house, and the work has been satisfactorily done.

PRIMARY No. 14,

In accordance with Ordinance No. 64, I have had drawings and specifications made for the erection of a new school house for Primary School No. 14, which are on file in this office.

STAIRWAYS IN THE PUBLIC SCHOOLS.

Ordinance No. 18 appropriated $10,000 for the erection of additional stairways at such public school houses as had only one flight of stairs in them, and, in accordance therewith, I have had such additional stairs erected—some outside and some inside, of wood or iron, as circumstances dictated, in the following school houses :

No. 27, Chester and Fayette streets.
" 17, Washington street.
" 25, Caroline, near Bank street.
" 2, Gough and Stiles streets.
" 13, Aisquith, near Mullikin street.
" 7, Mullikin, near Aisquith street.
" 11, Bond and Jefferson streets.
" 13, Jefferson, near Caroline street.
" 26, Orleans, near Bond street.
" 4, Bond and Chew streets.
" 5, Eager street and Greenmount avenue.
" 9, Courtland, near Saratoga street.
" 6, Druid Hill avenue.
" 18, Mulberry and Fremont streets.
" 29, Hill, near Sharp street.
" 3, Howard and Montgomery streets.
" 4, Sharp, near Montgomery street.
" 12, Barre and Warner streets.
" 30, Hollins, near Fulton street.
" 10, Hollins, near Schroeder street.
" 15, Saratoga street and Carrollton avenue.
" 11, Schroeder and Pierce streets.
" 21, Pennsylvania avenue and Robert street.
" 17, Light and Poultney streets.
" 10, William and Warren streets.
" 28, Battery avenue.

These stairways have been built with an eye to the object of their construction—spacious and substantial—and the erection of them is a subject of congratulation, relieving the public mind, and especially the minds of those most immediately interested in the government of the public schools, of the apprehension and anxiety heretofore existing on account of the inadequacy of the means of egress in case of panic, occasioned by fire, or by any other source of alarm amongst the pupils.

THE PUBLIC SCHOOLS GENERALLY.

The liberal appropriation of $33,000, for the general repair of public school houses, has enabled me to put them all in thorough order, and especially to paint all that stood in need of this improvement, so essential to their preservation and to their presentable appearance. About forty of the houses, including the City College and the Eastern and Western High Schools, have been painted, at an expense of about $9,700; and a very recent personal inspection of all the schools throughout the city, warrants me in saying that all are now in a thorough state of repair.

MARKET HOUSES AND HALLS.

Belair Market.

By Resolution No. 2, $4,000 was appropriated for repairs of this market house. I have, accordingly, had the plaster ceiling replaced by a substantial board ceiling throughout; a new office built for the clerk of the market, and the gutters and spouting put in good repair and painted.

Lexington Market.

The two principal market houses have been paved throughout, with "Gray's Mastic pavement," at the cost of $12,200, appropriated for that object by Ordinance No. 147. The work has been done to my entire satisfaction, and is guaranteed to last five years without requiring repairs.

The superiority of this material over the ordinary brick pavement, for purposes of this kind, should commend it to the favorable consideration of your Honorable Body, if the experience of a year or two should justify the expectations and the guaranty of the contractor. Besides this work, the market house has been put in perfect repair, the roof and spouting overhauled and partially repainted.

Cross-Street Market and Hall.

$800 was specially appropriated for the repairs of the roof and spouting of this market house, and the work has been thoroughly done, and the market house itself put in good repair. The hall was also repaired, painted and frescoed, and the furniture put in good order.

Broadway Market and Hall.

Out of $10,000 appropriated for the erection of sheds over the vacant spaces connected with this market house, $8,500 have been expended for that purpose, and for some repairs, and the work satisfactorily completed. The hall has also been repainted, frescoed and otherwise

improved, the roof and spouting thoroughly overhauled and repaired, and the vestibule paved with tiles.

Hollins Market and Hall.

This market house has been put in good repair, and the hall repainted, frescoed, and put in good condition for its purposes. The two brick piers at the east end of this building have been removed, as directed by Councils, and replaced with iron columns.

All the other market houses have received a due share of my attention, and such repairs as were necessary for their preservation.

CITY HALL.

By Ordinance No. 33, $3,000 was appropriated for repairs of this building. The boilers, furnaces and heating apparatus have been thoroughly repaired and put in perfect order. The cornices and balustrades have been cleaned down; the main portico caulked and repaired, besides other necessary repairs and improvements about the building.

THE OLD MASONIC HALL

Has been rough cast on the east gable and north walls, and the old unsightly railing in front removed. The Court rooms and offices throughout the building have been repainted, frescoed, and thoroughly renovated.

THE COURT HOUSE

Has received the special attention of this Department. The ventilation has been improved, as directed by Reso-

lution No. 2, appropriating $350 for that purpose, and appears now to give satisfaction to the judges and officers of the Courts. The sheriff's and other offices repainted and frescoed, and the Criminal Court Room thoroughly repaired, and the ventilation improved.

THE WELLS AND McCOMAS MONUMENT

Has had a substantial iron gate introduced into the railing, as directed by Resolution No. 12.

NORTHWEST STATION HOUSE.

The clock in the steeple of this building has been repaired and put in perfect running order, as directed by Resolution No. 59, at an expense of $190, $90 of which is to be paid out of the levy of 1882.

QUARANTINE HOSPITAL.

Resolution No. 162 directed me to prepare plans and specifications for suitable buildings for a Quarantine Hospital at Hawkins' Point, and in accordance therewith I have had such plans and specifications drawn out, embracing the hospital building, physician's residence, boat-house, stables, &c., and advertised for proposals for their construction. The bids ranged from $22,500 to $27,000; and the drawings are in the possession of the Committee on Health.

RENUMBERING HOUSES.

In obedience to resolutions of Councils, I have had several of the streets and portions of streets renumbered in

the usual way; but I respectfully submit that the present mode of numbering the houses is anything but satisfactory, and often leads to annoyances and vexations, and sometimes to serious mistakes. I therefore suggest that measures be taken by your Honorable Body to remedy this evil, which it appears is peculiar to this city. In my opinion, what is known as the decimal system (although not so well adapted to certain localities where the streets are very crooked and irregular,) could be practically introduced to the great convenience and satisfaction of the community.

EGRESS FROM PUBLIC INSTITUTIONS.

My attention has been repeatedly called to the insufficient means of egress from many—I may say, most—of the public institutions of the city, notably the theatres and other places of amusement. The horrible record of the destruction so lately of a theatre in Vienna, with its sickening details of the loss of human life, together with the remembrance of a similar catastrophe a year or two ago at Brooklyn, should admonish us to spare no pains to prevent a like calamity amongst ourselves. With all the necessary appliances at hand to prevent the spread of fire in the best regulated places of this kind, we see the persons appointed to make use of these appliances become panic stricken at the first outburst of alarm, and flee with the audience for personal safety. All rush frantically for the one point of escape—the main front entrance, the passages and stairways leading to which are choked up with human beings, and escape becomes impossible.

Our city, providentially, has been singularly exempt from loss of life by calamities of this character, but that is no guaranty of immunity in the future; and I cannot too earnestly impress upon you the importance of adopting some practical measures for their prevention.

The true remedy, it strikes me, is to make provision for more immediate egress from all parts of the house, with independent debouches into the streets from each floor by stairways from the front or from the sides of the building. The sense of security which the knowledge of such ample measures of escape would impart to an audience, would of itself dispel their alarm to such an extent as to prevent such a panic as must ensue when all know that there is but one point of escape, the desperate struggle to reach which results in disaster and death.

AWNINGS.

Ordinance No. 63, June, 1878, directed the Inspector of Buildings to make "no charge whatever for permits to erect awning frames." As the wording of the ordinance implied that a permit was still necessary, my predecessor consulted the City Counsellor on the subject, and was advised that a permit had to be taken out, and that it was necessary to advertise the application, which involved a charge which it was evidently designed to abolish. I would therefore suggest the repeal of the law requiring permits for awnings.

The sum required for this department for the year 1882 is $54,566.88, as particularized in Table B.

Table A shows the amounts appropriated for specific objects during the past year, and the amount expended for each account.

Table C details the revenues of this office, and the number and character of the permits issued.

Respectfully submitted,

JOHN S. HOGG,
Inspector of Public Buildings.

TABLES.

TABLE A,

Showing the Amount of Appropriations for this Department for the year 1881, *and the Disbursements to* 31*st December.*

ORDINANCES AND RESOLUTIONS.	OBJECT.	AMOUNT.	DISBURSED.	UNEXPENDED BALANCE.
Ordinance 43.	Repairs of public school houses..	$33,000 00	$22,650 09	$10,349 91
	" " market houses.....	5,000 00	4,831 41	168 59
	" " city property.....	3,500 00	3,401 01	98 99
	" " City Hall.....	3,000 00	2,875 59	124 41
	Salaries.....	3,000 00	3,000 00	.....
	Contingent expenses.....	200 00	186 39	13 61
Resolution 2.	Ventilating the Court house.....	350 00	350 00	.....
Ordinance 2.	Building No. 2 Public School in South Baltimore.....	15,000 00	6,843 31	8,156 69
" 112.	Additional for same, to be taken out of General Repairs, $3,000	.....	.....	.....
Resolution 5.	Iron railing at Public School No. 7	350 00	198 40	151 60

Ordinance 43.	Building Grammar School No. 7.	7,323 00	7,323 00	.....
" 91.	Completion of same.....	593 00	593 00	.....
Resolution 12.	Gate in railing at Wells and McComas Monument..	50 00	35 00	15 00
" 29.	Ventilating Criminal Court room	550 00	475 00	75 00
" 39.	Improving Primary School House No. 18.....	6,000 00	5,913 00	87 00
Ordinance 18.	Sheds at Broadway market.....	10,000 00	8,491 78	1,508 22
Resolution 44.	Iron railing at Grammar School No. 12.....	300 00	298 00	2 00
" 52.	Repairs at Belair market.....	4,000 00	3,875 00	125 00
" 250.	Inside shutters at Grammar School No. 4.	450 00	425 00	25 00
Ordinance 20.	Building Public School No. 4 in northeast section.....	15,000 00	3,831 07	11,168 93
" 115.	Additional for same, out of appropriation for General Repairs, $6,000.....	.....	.....	.....
" 64.	Plans and specifications for Primary School No. 14.....	500 00	500 00	.....
Resolution 59.	Repairs of clock at Northwestern Station.....	200 00	100 00	100 00
" 66.	Iron piers at Hollins market.....	150 00	211 00	.....
" 166.	Additional for same.	61 00		
	Amounts carried forward....	$108,577 00	$76,407 05	$32,169 95

TABLE A—Concluded.

ORDINANCES AND RESOLUTIONS.	OBJECT.	AMOUNT.	DISBURSED.	UNEXPENDED BALANCE
	Amounts brought forward....	$108,577 00	$76,407 05	$32,169 95
Ordinance 133.	Roof and spouting Cross-street market.....	800 00	800 00	.....
" 147.	Repaving Lexington market.....	12,200 00	12,200 00	.....
" 150.	Additional stairways at public schools	10,000 00	9,922 73	77 27
Resolution 146.	Inside shutters at Primary School No. 12.....	442 00	442 00	.....
" 162.	Plans and specifications for Quarantine Hospital.....	300 00	300 00	.....
		$132,319 00	$100,071 78	$32,247 22

TABLE B,

Showing the Amount Required for this Department for the year 1882.

For general repairs of public school houses...	$13,600 00
" " " market houses..	4,150 00
" " " City Hall.....	2 750 00
" " " Court Houses.....	3,000 00
" the completion of Public School No. 4....	16,684 00
" " " " " 2....	10,992 88
" the repairs of the clock at Northwestern Station House.....	90 00
" salaries.....	3,000 00
" contingent expenses..	300 00
	$54,566 88

TABLE C,

Showing the Revenue of this Office for the year 1881, *and the Number of Permits Issued.*

Permits issued as follows:		
20 bay windows from the ground.	$2,000 00	
13 " " at upper stories..	130 00	
		$2,130 00
164 signs and poles		328 00
9 steam boilers and engines		105 00
69 " "		Free.
503 frame sheds		1,535 06
74 awning frames		Free.
		$4,098 06
For advertising applications		1,673 00
		$5,771 06
Deduct amount paid for advertising		952 97
Net revenue		$4,818 09

ANNUAL REPORT

OF THE

JUDGES OF THE APPEAL TAX COURT,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881

REPORT.

APPEAL TAX COURT,

BALTIMORE, January 1, 1882.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

We beg leave herewith to submit the result of our labors for the year 1881, which closed on the 31st day of December.

Tabular statement marked "A" shows the taxable basis charged to the City Collector from the years 1877 to 1881, inclusive, with the assessments added to each, and the collections and abatements made on each.

Table "B" exhibits, by wards, the number of building permits issued during the year.

Table "C," the Assessor's report, shows the number of new buildings and additional improvements assessed by the Court's Assessor; the wards in which they are severally located, and the detailed and aggregate valuations of the same.

TABLE A.

Statement of property for each year that stand charged to the City Collector December 31, 1881.

1877	Real.	Personal.
Amount of assessment unpaid January 1, 1881	$699,481	$1,693,572
Amount of new assessments	29,300	
Amount of assessment as real, (assessed as personal)	443,500	
	$1,172,281	$1,693,572
Less amount of abatements	$ 457	$214,185
" collected upon	1,140,473	207,339
" having been assessed as real		443,500
Amount remaining uncollected, closed by limitation	31,351	828,548
	$1,172,281	$1,693,572
1878.		
Amount of assessment unpaid January 1, 1881	$13,471,235	$3,034,957
Amount of new assessments	13,169	6,200
	$13,484,404	$3,041,157
Less amount of abatements	$ 290,809	$ 935,895
" collected upon	12,798,714	565,579
Amount remaining uncollected	394,881	1,539,683
	$13,484,404	$3,041,157

1879.	Real.	Personal.
Amount of assessment unpaid January 1, 1881	$23,977,790	$9,189,476
Amount of new assessments	13,169	32,800
" refunds to December 31, 1881	16,036	.....
	$24,006,995	$9,222,276
Less amount of abatements	$ 283,885	$1,427,026
" collected upon	12,008,606	2,194,848
Amount remaining uncollected	11,714,504	5,600,402
	$24,006,995	$9,222,276
1880.		
Amount of assessment unpaid January 1, 1881	$55,961,063	$16,122,996
Amount of new assessments	30,141	96,807
" refunds to December 31, 1881	83,947	.....
	$56,075,151	$16,219,803
Less amount of abatements	$428,769	$1,726,642
" collected upon	36,561,913	8,077,073
Amount remaining uncollected	19,084,469	6,416,088
	$56,075,151	$16,219,803
1881.		
March 1. Amount of assessment remaining as part of assessment of 1880	$182,769,488	$36,260,398
Amount of new assessment, less abatements on appeals	3,188,130	5,301,095
Amount of new assessments	283,908	551,408
Amount of new assessments, incorporated companies		21,883,445
	$186,241,526	$63,996,346

	Real.	Personal.
Less amount of abatements	$1,044,369	$1,963,314
" " collected upon.....	136,118,698	48,782,942
Amount remaining uncollected.	49,078,459	13,250,090
	$186,241,526	$63,996,346

RECAPITULATION.

Amount for different years charged to City Collector, January 1, 1882.

1878, real.....	$ 394,881	
" personal.....	1,539,683	
		$1,934,564
1879, real.....	$11,714,504	
" personal	5,600,402	
		17,314,906
1880, real.....	$19,084,469	
" personal.....	6,416,088	
		25,500,557
1881, real.....	$49,078,459	
" personal	13,250,090	
		62,328,549
		$107,078,576

TABLE B.

The number of permits issued from January 1, 1881, to December 31, 1881, for new buildings and improvements, was seventeen hundred and ninety-nine (1799), and apportioned among the several wards, as follows:

Wards.	New Improvements.	Additional Improvements.	Total.
1	144	49	193
2	33	24	57
3	19	37	56
4	11	13	24
5	14	14	28
6	6	30	36
7	44	44	88
8	61	22	83
9	28	28	56
10	33	22	55
11	58	28	86
12	126	29	155
13	15	15	30
14	7	32	39
15	21	29	50
16	40	29	69
17	155	25	180
18	45	31	76
19	306	41	347
20	63	28	91
	1229	570	1799

TABLE C.

BALTIMORE, January 3, 1882.

To the Honorable the Judges of the Appeal Tax Court:

I submit to your consideration a report of new buildings and additional improvements, with the cash value thereof, as assessed by me, commencing January 1, 1881, and ending December 31, 1881, apportioned in the several wards, as follows:

Wards.	New Improvements.	Additional Improvements.	Cash Value.
1	130	40	$122,870
2	27	23	91,025
3	13	33	16,415
4	8	15	59,700
5	5	12	18,275
6	9	25	18,925
7	47	33	68,200
8	48	20	133,125
9	34	16	413,075
10	34	21	462,000
11	71	16	461,375
12	128	31	391,075
13	11	7	27,650
14	5	18	18,615
15	14	19	82,475
16	42	27	69,700
17	160	19	160,915
18	42	20	59,050
19	237	44	300,400
20	70	29	88,625
	1135	468	$3,063,490

Very respectfully,

MICHAEL ROCHE, *Assessor.*

BALTIMORE, December 31, 1881.

To the Honorable Judges
of the Appeal Tax Court:

The undersigned respectfully submit the following report in reference to the re-assessment of property made by us under your instructions.

During the time the books were open—from the 1st day of May to the 31st day of October—to receive applications from parties considering themselves aggrieved by assessments upon their property, there were received 1141 applications. Abatements have been recommended on 670, amounting to $498,103, and 471 applications dismissed.

We are now engaged in reviewing, for the purpose of re-assessing, the property which we believe to have increased materially in value since the last general assessment, and which we will have completed in time to be added to the taxable basis for 1882. Our increase in the re-assessment, added to the taxable basis for 1881, was $528,583.

Very respectfully,

WM. W. ORNDORFF,
HENRY DUVALL,
Assessors.

JAS. F. DEALE, *Clerk.*

TAX DEPARTMENT, CITY COLLECTOR'S OFFICE—CITY HALL.

BALTIMORE, January 9, 1882.

To the Honorable Judges of the
Appeal Tax Court for Baltimore City:

GENTLEMEN:

The undersigned reports the Bailiff's Department as having made assessments of personal property to March 1, 1881, of the following amount: five millions three hundred and fifty-one thousand and fifty-six dollars, ($5,351,056.)

Respectfully submitted,

MICHAEL P. CAUGHEY, *Bailiff.*

REFUNDS.

From January 1, 1881, to December 31, 1881, there have been one hundred and ten (110) orders for refunding of taxes, given generally to parties who have paid in error, either as double payments, or on wrong property.

TRANSFERS.

From January 1, 1881, to December 31, 1881, there have been four thousand five hundred and twenty-eight (4,528) transfers of property.

We respectfully call your attention to abatements made under Ordinance No. 7, 1881, entitled "An ordinance to encourage the development of manufactures and manufacturing industry in the city of Baltimore."

The amount of applications and abatements to date aggregate a total of $411,147. But this is only a partial amount due to these industries—owing to the construction of the law being applicable to individual firms only, and not applying to incorporated companies.

We again deem it necessary to urge upon your honors the imperative necessity of some legitimate or more equitable system of taxation, something, at least, more modern than the present system that has existed from the time of the city's birth; some of these laws have become obsolete or inoperative, and peculiarly embarrassing to all that have to deal with them. As the matter, however, is now in the hands of the Commission, created by your Honorable Body, to revise and report a new law, we deem it unnecessary for us to add any further suggestions.

Respectfully submitted,

C. W. LEWIS,
JAMES E. CARR,
AB'M B. PATTERSON.

H. P. Mowinckel, *Chief Clerk.*
Thos. K. McCormick, *Assistant Clerk.*

ANNUAL REPORT

OF THE

HEALTH DEPARTMENT

OF THE

CITY OF BALTIMORE,

TO THE

Mayor and City Council of Baltimore,

FOR THE

Fiscal Year Ending December 31st, 1881.

OFFICERS AND EMPLOYEES

OF THE

HEALTH DEPARTMENT

Of the City and Port of Baltimore.

FOR THE YEAR 1881.

JAMES A. STEUART, M.D.,
Commissioner of Health and Registrar.

JAMES F. McSHANE, M.D.,
Assistant Commissioner of Health.

J. McHENRY HOWARD, M D.,
Resident Physician at the Quarantine Hospital of the Port of Baltimore.

A. ROBERT CARTER,
Secretary.

WILLIAM H. BOSLEY, *Nuisance Clerk.*
V. BURGESS HINES, *Permit Clerk.*
F. W. RABORG, *Clerk to Registrar.*

Messenger:

MONTGOMERY LAWRENCE.

Sanitary Inspectors:

GEORGE E. TAYLOR,
J. P. SMITH,
BEVERLY DIGGS,
GEORGE E. BROWN,
JOSEPH V. FITZPATRICK,
J. E. DURDING.

Superintendents of Streets:

B. V. KELLY, *First Dist.*
MICHAEL FADGEN, *Third Dist.*
JOHN MEAGHER, *Fifth Dist.*
J. P^{R} SCOTT, *Second Dist.*
LOUIS KROEGER, *Fourth Dist.*
HENRY LANCASTER, *Sixth Dist.*

Inspectors of Sewers:

HENRY PAFF, *Eastern Dist.*
JOHN W. LEE, *Western Dist.*

Superintendents of City Public Cemeteries:

PATRICK MULLEN, *Eastern.*
F. A. KERCHNER, *Western.*

VACCINE PHYSICIANS.

First and Second Wards,
JOSEPH J. SULLIVAN, M.D., 16 Thames Street.

Third and Fourth Wards,
S. H MARTIN, M.D., 233 E. Pratt Street.

Fifth and Sixth Wards,
J. E. GORSUCH, M.D., Aisquith and Fayette Streets.

Seventh and Eighth Wards,
E HALL RUTLEDGE, M.D., 151 Aisquith Street.

Ninth and Tenth Wards,
J. V. COONAN, M.D., 41 Courtland Street.

Eleventh and Twelfth Wards,
I. R. PAGE, M.D., 220 Linden Avenue.

Thirteenth and Fourteenth Wards,
J. W. S. JORDAN, M.D., 126 Mulberry Street.

Fifteenth and Sixteenth Wards,
J. D. BLAKE, M.D, 168 S. Paca Street.

Seventeenth and Eighteenth Wards,
J. H. SMITH, M.D., Charles and Hamburg Streets.

Nineteenth and Twentieth Wards,
A. H. SAXTON, M.D., 543 W. Lexington Street.

REPORT

OF THE

COMMISSIONER.

REPORT.

HEALTH DEPARTMENT—CITY HALL,

BALTIMORE, MD., January 2, 1882.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I have the honor to transmit herewith the annual report of the Health Department for the year ending December 31, 1881.

In doing so, I may be permitted again to offer my congratulations to the Citizens of Baltimore upon the general good health which has prevailed during the past twelve months.

With the exception of some circumscribed endemics of diphtheria, and the recent limited number of cases of small pox, our city has been exceptionally fortunate. These two diseases are, undoubtedly, "preventable," and it is to be regretted that they should ever be added to the mortuary list. The first has been traced, in almost every instance, to defective city sewers and house drains; the latter to the neglect of vaccination. Most

of the old city sewers are so wretchedly out of order, and badly constructed, that it is impossible, with any amount of labor, and the limited means at our command, to prevent the accumulation of such filth as is prolific of disease.

Your Commissioner has again and again, in succeeding annual reports, presented the importance of this matter to your Honorable Body, and now again respectfully urges the necessity of improvement in this direction.

The Harford Run sewer, which is now completed to the corner of Monument and Patapsco streets, is a long stride in the right direction, but to make efficient a work so well begun, its immediate completion to the harbor is absolutely demanded. This, with the proper trapping of all the inlets, and the entire obliteration of the old foul channel, will, I feel assured, work an entire change in the now unhealthfulness of that section of the city.

The first duty which the state owes to the people is to promote and protect the public health. This cannot be done, when such evils as we are now considering exist, without the expenditure of large sums of money; but in the end it is true economy. Skill and honesty reduce the cost to the minimum, and through improved health, and the increased value of property, the State is in time more than repaid.

I can not refrain from raising my voice again against the continued soil saturation of our old privy-pit system. Its dangers are weighing upon the minds of all reflecting citizens, and I think the time is ripe for

the inauguration of the plan of *house* sewerage, which I had the honor to recommend and urge upon your Honorable Body in my report of October 31, 1875, (page 15,) and which has since been so skillfully and exhaustively elaborated by the eminent civil engineers, Charles H. Latrobe, Esq.; and Col. George E. Waring, Jr., of Newport, Rhode Island.

In order that a city may be protected from an incursion of small-pox, (which will, from time to time, in spite of all precautions, through immigration and migration, be introduced,) thorough vaccination and revaccination must be perpetually kept up. Under the present law there are but ten vaccine physicians for the whole city, or one for each two wards. In the 17th and 18th Wards there can not be less than 50,000 inhabitants, and in the 19th and 20th, nearly, if not quite, as many. It is manifestly impossible for two physicians, if they gave their whole time during twelve months, to visit every house in these four wards, and to *secure* the protection, by vaccination, revaccination or examination of arms, of every man, woman and child in the whole of this wide and populous territory. I therefore respectfully suggest the propriety and importance of the appointment of at least one vaccine physician for *each* ward. A redivision of the wards of the city, so as to equalize the population resident therein, would greatly facilitate this important work.

As regards the abatement of the general nuisances of the city, the Health Department has, for a long time, labored under many serious disadvantages, the chief of which is the difficulty of bringing delinquents to

justice. Over and over again, when the department has been forced to have recourse to the issuance of a warrant of arrest and arraignment, the magistrate or court before whom the case has been brought, has either dismissed it, or decided, without examination into the merits of the case, against the department. This has emboldened the violators of the law, and seriously embarrassed the Commissioner of Health in his efforts to abate *all* nuisances detrimental to the public health, and forbidden by the health ordinances of the City Code.

I again renew my recommendation that public fountains (of a simple and inexpensive character) be provided in all parts of the city, especially where the people have been in the habit of depending upon their much-beloved pumps.

I have repeatedly reported that there is not one of these old landmarks of the past (except the artesian pumps) fit for use for drinking purposes, and I have succeeded in condemning and putting out of use a large number of them, but many remain still in use, which, though foul, can not be dispensed with, for the reason that no other water supply has yet been provided for such localities.

Your Health Commissioner still regards the presence in the city and its immediate vicinity, of slaughterhouses, bone-boiling and fat-rendering establishments, as highly injurious to the public health, and again urges and recommends the establishment of an abattoir in a suitable locality. New York, Boston, Philadelphia, Chicago, St. Louis, Cincinnati, and many other cities of this

country, have long since had the wisdom to adopt this plan, and the butchers of those places have fully realized the advantages, and reaped the profits accruing from these improved methods.

For a long time the need of a suitably located and constructed morgue has been sorely felt by the Health Department, as well as by the Police Department of this city. Many painful occurrences have demonstrated the necessity for the means of preserving the bodies of the unknown dead for a sufficient time to afford opportunity for recognition by friends, where any such exist. Several years ago an ordinance for the establishment of a morgue was passed by the City Council, but failed for the want of a sufficient appropriation. I trust the present Council may see fit to postpone action on this subject no longer.

It is with great satisfaction that I allude to the extension, during the past year, of improved pavements in some of our most important streets, and I indulge the hope that much more will be done during the ensuing year. The facility which this affords for the more rapid and perfect cleaning of the streets is not only an economy, but greatly contributes to the preservation of health. I trust, also, that the system of indiscriminate trench digging may be put a stop to. There can be no doubt that many malarial troubles, as well as retarded recoveries from other diseases, have been due to this cause.

In this connection I beg leave to express my cordial approval of the proposal, made by his Honor, the Mayor, in his inaugural address, namely: to separate

the Street Cleaning Department from the Health Department, and to place it under the control of a special superintendent. In my opinion, this would not only insure greater efficieney in the cleaning of the streets and the removal of the garbage and offall, but would lighten the burdens of the Health Department, and enable them to devote more time to matters of equal importance, and more directly the work of sanitation.

In addition to this change, I would respectfully suggest the purchase of several one-horse, two-wheel street-sweeping machines, for use upon the streets, where Belgian block and Asphaltum block pavements have been laid down. In Washington and other well-paved cities, these machines are in daily use, and prove themselves economical, rapid and efficient.

Added to this I would recommend the purchase of a sprinkling machine for each of the six street districts of the city. One of the greatest annoyances to pedestrians during dry weather, are the clouds of dust raised by the street sweepers. This can be entirely obviated by the sprinkler being used ahead of the sweepers.

Before closing this report, I must be permitted to express my entire satisfaction with the general working of my department during the year.

All have vied with one another in the faithful and zealous performance of duty. The admirable report of the able Assistant Health Commissioner, speaks for itself, in showing the vast amount of work accomplished, and the low cost of the same. It would be impossible for me to express too strongly my admiration for the patient, untiring and effective work of our able

Secretary. Few can comprehend the amount of labor bestowed upon the valuable tables he presents in this report, and from week to week throughout the year. Sanitary Inspectors Fitzpatrick and Brown have performed the difficult and dangerous duty devolving upon them during the late prevalence of small pox, with a fearlessness and zeal worthy of the highest commendation.

Great embarrassment was occasioned this Department during the past year by the curtailment of the appropriation by the City Council, below estimate of your Commissioner of Health for the year 1881. Each item was based upon the closest estimate, and experience has proved them to have been below, rather than above the actual needs. In the street and garbage account we have not exceeded in our expenditures the amount appropriated, but work has necessarily been left undone that should have been done during the last months of the year. Your Commissioner, therefore, must respectfully insist upon the correctness of his estimates for the ensuing year, as absolutely necessary. It is always an unpleasant task for this Department to return to the Council with its demand for an extra appropriation. During the latter part of the past year this had to be done, the alternative being nothing less than the suspension of the whole street and garbage force, and but for the accidental unexpended sums that had been appropriated for other purposes and remained unused with the City Treasurer, this most disagreeable, if not absolutely damaging course, would have been forced upon the Health Department.

Estimate of Expenses for the Health Department for the Year 1882:

Street and garbage account	$210,000 00
Contract for removal of garbage	13,500 00
Generel health	15,000 00
Nuisance and sewers	10,000 00
Salaries	19,600 00
Cleaning cesspools of public schools	3,500 00
Quarantine hospital	16,000 00
Post-mortems	400 00
Total	$288,000 00

Respectfully submitted,

JAMES A. STEUART, M. D.,
Commissioner of Health.

REPORT OF VITAL STATISTICS.

Births recorded for the year ending December 31, 1881.

January	824
February	660
March	587
April	650
May	583
June	565
July	834
August	710
September	715
October	938
November	637
December	804
	8,507

Deaths recorded for the year ending December 31, 1881. 8,816

Still-births recorded for the year ending December 31, 1881. 651

Unknown Dead recorded for the year ending December 31, 1881.

Unknown men	5
" children	7

Transcripts from the Records of Births for the year ending December 31, 1881.

For litigation	1
For family record	1

Transcripts from the Records of Deaths for the year ending December 31, 1881.

For life policies of insurance	26
For army pension claims	25
To go to Germany to prove death	15
" Russia " "	1
" England " "	2
" Washington, D. C., U. S., to prove death	1
" City Court for litigation	1
For divorce case	1
For family record	7
For other purposes	3
	84

FREDERICK W. RABORG,
Clerk to Registrar of Vital Statistics.

TABLES.

TABLE No. 1.

Annual Report of Deaths from all Causes in the City of Baltimore for the year 1881.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
Abscess										1			1
" Brain		1		1								1	3
" Ear	1	1			1								3
" Ear and Throat	1												1
" Mammary	1												1
" Liver	1				1		1			4			7
" Pelvis		1				1							2
" Recto Pharyngeal		1											1
" Intrauterine			1										1
" Psoas			1		1							1	3
" Peritoneal				1	1								2
" Neck						1							1
" Throat							1						1
" Iliac							1						1
" Thigh							1						1
" Parietes of Abd'n.								1					1
" Scrotal								1					1

Abortion	3												3
Angina Pectoris.	1	2	2	1			2					1	9
Apoplexy	13	14	18	9	14	7	19	11	6	11	8	11	141
Ascites	1			1	1	1			2			1	7
Asphyxia	2	1			2			2	2			5	14
Asthma	3	1	4	2	1	2	4	1	2	2	2	1	25
Asthenia.	3	3	4	6	6	3	10	4	1	4	2	11	57
Atelectasis Pulmonum	2	3		1		1	1			1	1		10
Adenitis	2												2
Acute Miliary Tuberculosis		1											1
Amenorrhœa		1											1
Aortic Stenosis		1											1
Aneurism of Aorta			1	1									2
Aortic Regurgitation				1									1
Albuminuria				1		1	3			1		1	7
Anaemia				1	1						1		3
Adynamia				1									1
Aneurism of the Innominate Artery				1									1
Addison's Disease				1									1
Atrophy of Liver					2		1						3
Atrophy—Progressive Muscular						1							1
Atrophy							4			6		1	11
At Birth									1				1

TABLE No. 1—Continued.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
Anthrax	1									1			2
Bright's Disease	8	9	12	14	8	10	6	7	10	9	4	13	110
Burns	4	3	5	4	1			4		1	2	4	28
Bronchorrhea												1	1
Cancer	1												1
" Cervix	1												1
" Diffused	1	1		1		1	1	1					6
" Breast	2	1	5	5	1	2	4	1	2	4	3	1	31
" Liver	1	4	1	1	2	2		1		2	1	1	16
" Uterus	1	3	1	7	3	1	4	4	3	3	2	1	33
" Stomach	4	5	3	5	4	3	7	1	2	11	2	2	49
" Pylorus		1		1		2					2		6
" Face		1										1	2
" Œsophagus		1					1						2
" Bowels			1					3		1	1	1	7
" Ovary			1							1			2
" Ventricular			1								1		2
" Mouth				1		1							2

" Vagina				1									1
" Rectum				1				1				1	3
" Cheek						1							1
" Lower Jaw						2							2
" Pectoralis						1							1
" Shoulder						1							1
" Caecal Valve								1					1
" Vulva										1			1
" Duodenum										1			1
" Axillary Gland											1		1
" Mesenteric Gland											1		1
" Bladder												1	1
Consumption of Lungs	126	81	102	122	83	76	104	83	104	94	74	157	1,206
Consumption of Bowels	1									1	1		3
Capillary Bronchitis	11	4	7	5	2	3			1	2	5	8	48
Calculus (Biliary)	1												1
Cirrhosis of Liver	2	1	2		3		3	2	3		2	1	19
Concussion of Brain	1	1		1	4		3	1	3		2		16
Congestion of Brain	8	3	8	8	3	3	9	6	5	7	4	6	70
Congestion of Lungs	5	2	4	4	2	3	3	5	6	7	3	5	49
Congestion General	1												1
Croup	20	17	13	17	8	4	11	9	17	35	42	49	242
Cyanosis	2	3	3	1	1	2	4	3	4	4	2	2	31
Chorea	1											1	2
Catarrh Bronchial	1		1		1		1	1	1		1		7
Catarrh of Stomach	1		1										2

TABLE No. 1—Continued.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
Catarrh of Lungs	1		1		2						1		5
Catarrh Gastro Intestinal					1		4	6		3			14
Catarrh Intestinal						1		1			2	1	5
Cholerine				1			1						2
Cirrhosis			1										1
Congestive Chill	2				2			1	1	1			7
Convulsions	36	37	36	26	32	39	45	37	29	37	27	38	419
Child Birth		2	1	1				2	2	1		1	10
Congestion of Liver		1					1		1	1			4
Caries of Femur and Ilium		1											1
Caries of Dorsal Vertebrae		1											1
Carbuncle				1									1
Compression of Brain				1									1
Colic				2			1	1		1		1	6
Cholera Infantum					3	37	279	119	70	40	6	4	558
Cholera Morbus					2	3	14	7	2	3	1	1	33

Congestion of Bowels					1				1		1		3
Congestion of Heart					1								1
Collapse of Lungs					1								1
Cramps						1							1
Colic (Biliary)								1					1
Colic (Renal)								1					1
Colitis									1				1
Chlorosis									1				1
Congestion of Stomach											1		1
Concussion of Spinal Cord											1		1
Catarrh, Nasal												1	1
Disease of Brain	1	4					2	1	2	1	1		12
" Spine	3		1	1						1		1	7
" Liver		1		2	1	1	1				1		7
" Stomach						1	3						4
" Hip												1	1
Dropsy, Peritoneal							1						1
" Abdominal							1						1
" Ovarian						1							1
" General	6	5	4	3	7	4	3	7	4	4	4	6	57
" of Heart		1			1				1	2		2	7
" of Liver					2								2
" Scarlatinal				1		1		1					3
" Renal						1							1
Drowned	1		2	1	6	2	6	5	6	4	6		39
Dysentery	2		3	1	2	3	14	15	3	6	4	3	56

TABLE No. 1—Continued.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
Diarrhœa	3	3	4	3	2	4	29	15	8	9	4	2	86
Dentition	6	5	5	7	8	10	27	19	14	8	3	3	115
Diphtheria	47	29	20	25	24	30	46	42	70	100	90	116	639
Debility	1	.....	.....	2	1	.....	.....	.....	.....	2	.....	1	7
Dilatation of Heart	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Delirium Tremens	.....	3	1	1	3	.....	1	1	.....	1	.....	3	14
Diabetes	.....	1	2	.....	.....	.....	.....	.....	.....	.....	1	1	5
Dyspepsia	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	3
Duodenitis	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Dipsomania	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Dropsy of the Pericardium	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Disease of Prostate	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Emphysema	1	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	3
Entero Colitis	3	.....	.....	1	1	6	13	4	7	5	3	.....	43
Endo Carditis	1	1	1	1	.....	1	.....	.....	.....	.....	.....	.....	5
Endo Peri Metritis	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Epilepsy	3	1	1	.....	2	1	2	1	1	2	3	.....	17

Erysipelas	4	4	3	10	1	3	4	1	4		4	1	39
Effusion of Brain	1		1					1					3
Exposure	2												2
Exhaustion			1										1
Eczema				1	1								2
Enlargement of Liver				1									1
Extra Uterine Pregnancy				2									2
Epistaxis					1					1	1		3
Excessive Heat					1								1
Embolism					1				1				2
Enteralgia										1			1
Excessive Vomiting											1		1
Fevers, Scarlet	58	34	20	21	14	15	7	8	6	12	8	12	215
" Typhoid	9	8	5	9	9	11	11	32	37	29	20	17	197
" Congestive	3									2		1	6
" Malarial	1		3	1	1	3	2	6	10	11	9	1	48
" Typho Malarial	1		1	2	1	2	3	11	8	11	4	6	50
" Gastro Enteric	1				1								2
" Intermittent	2	1	1	1	2	1			1			1	10
" Puerperal	1	1	2				3	1	1	1		2	12
" Catarrhal	1	2	1									1	5
" Remittent			2	2				1	6	4	2		17
" Rheumatic			2	1									3
" Typhus				1	1				1				3
" Gastric					1							2	3
" Brain					1		2						3

TABLE No. 1—Continued.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
Fevers, Bilious							1	2	3				6
" Continued									1				1
Fracture of Ribs	1												1
" Skull	2	2	1	3		2		1	2	2		3	18
" Hip		1											1
" Humerus		1											1
" Neck		1								1			2
" Veterbrae		1	1		1	1					2		6
" Jaw			1										1
" Thigh			1		1						1		3
" Leg				1	1								2
" Tibia							1						1
" Ilium									1				1
" Frontal Bone									1				1
Fistula in Ano					1								1
Fissure Cervix Uteri							1						1
Forceps Delivery							1						1
Gangrene of Navel	1												1

" Leg			1		2		1	2	1				7
" Lungs			2		1					1			4
" Face							1		1				2
" Foot							1						1
Gangrene Senile	2									1		1	4
" Bowels										1			1
Gastro Enteritis	1	3	3	3	5	4	13	13	7	6	6	6	70
Gout	1							1					2
Hernia		1				1							2
" Inguinal	1									1			2
" Strangulated		2	1	1	2	1	1		3	1	2		14
Hemorrhage of Brain	3	2	1		1		3		1			2	13
" " Navel	2		2			1	2	1		1	1	3	13
" " Stomach	2	1											3
" " Lungs	1		1	2				2	3	2		2	13
" " Uterus	1				2							1	4
" " Bowels			1	2			1	1		1			6
" Post Partem	1								1				2
" Hæmorrhoidal												1	1
Hydrocephalus	3		6	3	6	4	7	7	2	6	1	3	48
Heart Disease	22	33	28	32	25	22	30	17	22	30	25	28	314
Hæmatemesis		1			1			1	1				4
Hydrothorax			1					1		1	2	2	7
Hydro Pericardium						1				1	1		3
Hypertrophy of Liver							1						1
Hæmoptysis										1	1		2

TABLE No. 1—Continued.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
Heat Stroke	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	3
Hydrocele	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Inflammation of Brain	.....	1	3	3	1	2	2	.....	1	.....	.....	.....	13
" " Bladder	1	2	1	3	.....	2	.....	1	.....	1	1	1	13
" " Bowels	2	3	4	2	4	4	12	9	8	5	6	2	61
" " Stomach	2	2	1	8	10	6	1	4	4	2	3	2	45
" " Bronchi	18	12	7	12	13	2	8	2	5	4	7	16	106
" " Kidneys	5	5	3	2	1	1	2	.....	2	2	1	.....	24
" " Larynx	1	1	1	1	1	.....	1	1	.....	1	.....	.....	8
" " Liver	3	2	1	4	.....	.....	1	2	.....	1	.....	3	17
Inflammation of Pericardium	1	.....	1	1	4	1	1	2	1	1	1	.....	14
Inflammation of Peritoneum	3	9	2	6	2	3	6	4	5	7	4	4	55
Inflammation of Pleura	1	1	2	1	2	1	.....	.....	1	1	3	4	17
Inflammation of Caecum Intestinum	.....	....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Inflammation of Tonsils	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1

Inanition	10	6	8	10	6	12	25	20	14	25	9	11	156
Intussusception	1	4	2				1		1	2	1	1	13
Intemperance	3	2	3	3	1	2	1	5		2	4	2	28
Insanity		3					1				2	2	8
Imperfect Development				1									1
Indigestion					1				2	2	2		7
Influenza						1							1
Insolation							2						2
Ileus										1			1
Jaundice	1	1	1	1	1		1	5	3	1	3	1	19
Leucocythæmia	1	1									1		3
Lithotomy					1								1
Malignant Sore Throat												1	1
Marasmus	11	6	10	19	12	10	27	33	29	38	16	23	234
Myelitis	2					1	1						4
Malformation	2	1	1		1	1	3	2	1				12
Measles	1	1	3	10	25	13	14	4	4				75
Meningitis	9	14	14	17	10	14	16	15	21	15	7	10	162
" Tubercular	9	8	8	6	6	5	5	3	3	5	5	9	72
" Cerebro Spinal	3	3	4	6	4	4	3		3	4		3	37
" Basilar	1												1
Malarial Chill											1		1
Murder	1		2	1	2		1	3				1	11
Mal-nutrition	2			1	2	2	9	1	2	2	1	3	25
Malaria			1					4	1	3			9
Mercurial Dyscrasia			1										1

TABLE No. 1—Continued.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
Metro Peritonitis				1									1
Menorrhagia				1									1
Multiple Sarcoma				1									1
Metritis							1		1				2
Miscarriage								1			1		2
Metorrhagia									1				1
Malignant Disease of Mesenteric Gland										1			1
Morbus Cæruleus												1	1
Neuralgia	1					1			1			1	4
Nervous Prostration		2	2									2	6
Necrosis					1		1	1		2	1	1	7
Neurasthenia						1							1
Old Age	25	26	19	27	15	16	23	19	19	23	16	23	251
Œdema of the Lungs	1		1							1	1	1	5
Opium Habit			1										1
Osteosarcoma				1									1

Ossification of Heart					1								1
Overlaid									1				1
Orchitis									1				1
Occlusion of Intestines										1			1
Osteitis												1	1
Obesity												1	1
Œdema of the Glottis												1	1
Paralysis	13	12	10	22	7	3	14	12	9	10	11	13	136
Pneumonia	73	42	45	56	39	17	19	11	14	21	23	46	406
" Typhoid	5	3	3	2	1	2	1	2		2	4	1	26
" Broncho	5		2	3			1		1	1			13
" Pleuro		3	4	3	3		2	1	1		2	2	21
Pulmonary Effusion												1	1
Premature Birth	7	15	9	15	8	12	18	10	11	16	15	7	143
Parotitis	1						1						2
Phthisis Mucosa	1												1
Protracted Labor	1	2	3			2	1		1				10
Pyæmia	2	3		2		1	1	2	1	1	2	1	16
Puerperal Mania		1			1								2
Poison		2	1	2	1		2	4	1		1		14
Purpura		1											1
Pott's Disease		1							1				2
Puerperal Convulsions			2				1	2	1				6
Pulmonary Embolism			1										1
Puerperal Septicæmia				1									1
Phthisis Laryngeal				1	1		3	1					6

TABLE No. 1—Continued.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
Progressive Locomotor Ataxia				1									1
Phrenitis				1									1
Puerperal Metritis					1	1				2	2		6
Pelvic Cellulitis					1							1	2
Puerperal Peritonitis							2		1			2	5
Parametritis							1						1
Perityphlitis									1				1
Placenta Prævia									1				1
Preternatural Birth										1			1
Polypus of Uterus										1			1
Rheumatism			1					1		1	2		5
" Inflammatory	2	5	3	3	4		2	2		3	1	4	29
Rickets			1										1
Result of Parturition			2										2
Rheumatism of Heart				5						3		1	9
Rupture of Kidney											1		1
" Gall Duct											1		1

" Uterus												1	1
Shock from Fall											1	1	2
Scalds	2	1		1		1			2		3	1	11
Scrofula	6		7	5	8	2	6	1	2	3	2	2	44
Softening of Brain	1	5	1	3	1	1	1	6	2	3	7		31
Septicæmia	3	3	1	1	1	1	3	1	1			4	19
Suicide	2	2	1	3	2	4	3	3		2		1	23
Syphilis	2	2	7	3	1	2	2	1	4	3	1	2	30
Stricture of Œsophagus	1												1
" " Intestines		1	1		1				1				4
Suffocation by Gas											1		1
" " Earth											1		1
Starvation	1		1										2
Spasms of Heart	1												1
Stomatitis Materna			1										1
Specific Consumption				1									1
Sun Stroke					2		1	1	4	2			10
Small Pox						1					5	5	11
Septic Peritonitis						1							1
Sciatica							1						1
Sarcoma							1						1
Sclerosis of Spine										1			1
Stomatitis Aphthosa										1		1	2
Spina Bifida												1	1
Tabes Mesenterica	2		1		1	1		1	2	7	3	3	21
Tetanus	3	1	1	2	4	4	23	5	1	3	3	3	53

TABLE No. 1—Continued.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
Tumor Mammary	1												1
" Ovarian	1		2			1	3						7
" Brain		1									1		2
" Chest			1										1
" Malignant					1	1							2
" Super Peritoneal					1								1
" Sub Peritoneal						1							1
Thrombosis Cerebral	1											2	3
Thrombosis Left Femoral Artery						1							1
Trismus Nascentium		1			1	2	4	3	1	4	6	4	27
Tuberculous Mesenterica			1										1
Toxæmia			1										1
Tuberculous Diathesis									1				1
Tumor of Abdomen										1			1
Thrush										1			1
Tumor of Stomach											1		1
Uræmia	2	2	3		3			3	1	6	3	5	28

Uræmic Apoplexy									1				1
" Convulsions									1	1	1		3
Unknown Adults	1	1		3	2		3	3	1		2	1	17
" Infants	4	3	3	7	4	1	3	1	5	5	3	2	41
Ulcer of Leg		1										1	2
" Stomach					1								1
" Bowels						1			1				2
" Throat							1						1
" Chronic				1									1
" Duodenum										1			1
" Uterus											1		1
Varicella	1					1							2
Vesicular Emphysema		2											2
Whooping Cough	5	11	4	7	1	8	10	13	14	8	6	6	93
Wounds	5	5	5	2	4	4	12	8	9	6	1	4	65
Waxy Liver					1								1
Grand total	762	615	614	714	581	537	1116	792	757	855	639	834	8,816

TABLE No. 1—Continued.

AGES.	January.	Feb'ary.	March.	April.	May.	June.	July.	August.	Sept'ber.	October.	Nov'ber.	Dec'ber.	Totals.
Under 1 year.....	172	117	136	154	134	181	475	276	210	218	119	172	2364
Between 1 and 2 years....	53	45	56	57	52	46	137	94	96	84	72	72	864
" 2 and 5 "	79	41	43	52	41	36	58	46	66	87	66	80	691
Total under 5 years.....	304	203	235	263	227	263	670	416	372	389	253	324	3919
Between 5 and 10 years.	59	56	37	49	51	33	52	43	51	75	65	94	665
" 10 and 15 "	24	12	15	9	9	13	33	25	17	15	19	6	197
" 15 and 20 "	26	19	18	18	11	17	21	29	22	27	16	23	247
" 20 and 30 "	72	59	64	56	52	37	58	62	65	85	55	78	743
" 30 and 40 "	51	50	50	72	38	39	56	48	56	56	50	81	647
" 40 and 50 "	44	44	35	47	48	31	51	38	42	35	43	49	507
" 50 and 60 "	47	64	48	55	47	35	48	40	42	58	46	59	589
" 60 and 70 "	68	44	54	65	44	45	61	36	35	52	37	55	596
" 70 and 80 "	41	45	42	55	39	14	41	37	39	39	45	45	482
" 80 and 90 "	21	15	10	22	13	9	24	13	13	21	7	16	184
" 90 and 100 "	5	3	4	3	2	1	.....	5	3	3	3	4	36
" 100 and 110 "	.....	1	2	.....	.....	.....	1	.....	.....	.....	.....	.....	4
Totals.....	762	615	614	714	581	537	1116	792	757	855	639	834	8816

NATIVITY.													
United States—White....	484	360	344	414	340	318	690	477	469	550	394	513	5353
" Colored..	168	159	181	178	128	134	286	214	182	163	127	177	2097
Foreign.....	110	96	89	122	113	85	140	101	106	142	118	144	1366
Totals.....	762	615	614	714	581	537	1116	792	757	855	639	834	8816
Still Births.....	68	49	60	69	36	47	67	40	46	59	45	65	651
WHITE.													
Males.....	287	237	221	251	225	211	452	294	290	336	274	324	3402
Females.....	307	219	212	285	228	192	378	284	285	356	238	333	3317
COLORED													
Males.....	66	80	88	85	65	74	137	102	80	77	57	97	1008
Females.....	102	79	93	93	63	60	149	112	102	86	70	80	1089
Totals.....	762	615	614	714	581	537	1116	792	757	855	639	834	8816
Marriages.....	261	286	209	292	260	284	211	260	271	396	370	352	3452
Births.....	824	660	587	650	583	565	834	710	715	938	637	804	8507

Estimated population, 393,796. White, 338,384; Colored, 55,412. Death rate per 1000, whole population, 22.37. White, 19.87; Colored, 38.12.

Marriage rate per 1000 population, 8.76. Birth rate, 21.06.

TABLE No. 1—Concluded.

Total Number of Deaths Monthly in each Ward.

Wards.	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	November.	December.	Totals.
First	58	40	41	60	49	31	82	66	63	78	42	58	668
Second	50	39	27	35	35	23	61	48	48	52	30	41	489
Third	26	16	14	21	42	22	47	32	27	42	25	22	336
Fourth	21	16	17	17	17	22	26	20	11	21	22	16	226
Fifth	32	31	26	46	20	22	42	35	21	26	21	32	354
Sixth	36	32	36	32	24	29	57	35	42	36	27	43	429
Seventh	53	46	53	56	36	38	93	83	80	83	56	71	748
Eighth	19	21	23	29	15	19	44	24	26	29	32	27	308
Ninth	25	17	28	29	24	28	48	22	24	31	23	33	332
Tenth	27	23	17	19	13	16	11	12	18	12	10	24	202
Eleventh	21	21	23	19	17	16	19	18	24	15	14	18	225
Twelfth	24	19	25	26	18	19	40	18	26	24	22	32	293
Thirteenth	23	19	23	17	19	15	33	26	29	25	17	27	273
Fourteenth	40	22	24	30	25	22	37	23	22	29	23	39	336
Fifteenth	36	45	35	40	25	18	73	47	32	38	21	41	451
Sixteenth	58	47	47	58	35	49	72	63	39	43	42	46	599
Seventeenth	36	15	20	40	39	37	66	49	63	82	79	72	598

Eighteenth	65	52	44	47	38	33	82	64	72	70	44	68	679
Nineteenth	64	45	46	46	54	41	111	75	49	74	60	70	735
Twentieth	48	49	45	47	36	37	72	32	41	45	29	54	535
Totals	762	615	614	714	581	537	1116	792	757	855	639	834	8,816

Meteorological Summary for the year 1881.

From Signal Service Records.

PRESSURE.

Mean Barometer.....30.066 inches, or nearly normal.
Highest " .....30.869 " on February 7.
Lowest " ....29.036 " on March 30.
Range of " .... 1.833 "

TEMPERATURE.

Mean Thermometer ....57.1 degrees, or 1.3 degrees above normal.
Highest " .....101 " on September 7.
Lowest " ..... 6 " below zero, on January 1.
Mean Winter (1880-'81) Temperature, 32.4 degrees—about 10 degrees below that of 1879-'80.
Mean Spring ... .54.0 "
Mean Summer.....75.6 "
Mean Autumn ... .63.0 degrees, about 7 degrees above normal.

RAINFALL.

Rain or snow fell on 159 days, measuring 49.12 inches—an increase of 7.22 inches over last year, and an excess of 7.12 inches above the normal. The wettest month was March, with 7.59 inches of rainfall; the driest, July, with 1.40 inches.

WINDS.

Prevailing direction of wind, west to northwest.
Highest velocity of wind, 28 miles per hour, February 23.
Mean velocity of wind, 5.6 miles per hour.
Total movement of wind, 48,844 miles.

HUMIDITY, etc.

Mean Relative Humidity, 66.0 per cent.
First frost of season, October 6.
First ice, November 25.

Robert Seyboth,
Sergeant Signal Corps, U. S. A.

TABLE No. 2.

Deaths from Zymotic and Lung Diseases in each Ward in the City of Baltimore during the year 1881.

Zymotic Diseases.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth	Ninth.	Tenth.	Eleventh.	Twelfth.	Thirteenth.	Fourteenth.	Fifteenth.	Sixteenth.	Seventeenth.	Eighteenth.	Nineteenth.	Twentieth.
Small Pox	1												2	1		1			4	2
Measles	1	6	1	3		2	6	1	2		4	2	3		5	3	9	10	9	1
Scarlet Fever	10	2	2	8	14	28	30	17	7	5	1	7	4	9	6	17	5	18	22	7
Diphtheria	49	31	14	12	16	39	64	7	9	3	4	9	8	15	30	78	145	42	30	26
Croup	27	18	11	7	6	13	34	10	3		2	8	4	8	6	18	22	22	10	13
Whooping Cough	3	4	5	2	2	4	1	6	3	1	6	5	1		6	3	2	9	14	5
Typhus Fever						1		1												1
Typhoid Fever	14	21	11	2	6	8	21	1	6	5	4	8	8	7	11	11	13	23	9	11
Cholera Infantum	44	43	31	15	8	22	43	18	14	5	11	12	16	14	37	40	44	50	63	24
Cholera Morbus	2	6	1		3	1	1	1	3	1		1			1	8	2		1	1
Remittent Fever	3					1	3		1		1	1	1		1	1	1		2	
Intermittent Fever	1	1	1					2	1			1			1		1	2		
Malarial Fever	3	3	4	2	3	1	3	6						1	3	1	5	4	5	
Typho-Malarial Fever	5	3	1			1	9	3	2	3	1	1	2	2	6	2	4	3	3	
Puerperal Fever	1	1			1		2	2	1			1		1	1	1	3			
Diarrhœa	7	11	1	3		1	10		12	2	1	2	1	2	4	3	7	7	10	8
Dysentery	6	1	3	1	2	1	7	5	3	1		1	1	3	3	3	8	3	3	
Tonsilitis					1															
Erysipelas	3	2	1	3	2		2		1	3		1	1				3	2	4	
Pyæmia	3		1	2	1	1	1		1					2			2	3		1
Septicæmia	1	1					4	2	2			1	5	2	1			1	1	1
Entero Colitis	2	2	3		1		4	1	6	1	2	2		3		2	1	4	3	4
Cerebro Spinal Meningitis	8	1	2	2	1	3	6	2	1	1							3			3
Totals	194	157	93	62	67	127	251	82	78	31	37	63	57	70	122	192	280	203	193	108

Disease of Lungs.																			
Consumption	46	36	49	21	63	54	105	56	57	41	41	46	39	59	58	86	55	109	96	85
Pneumonia	34	30	20	12	26	31	39	15	17	6	15	15	11	17	34	23	31	50	48	30
Bronchitis	7	4	2	7	7	16	7	2	3	6	6	2	6	5	5	8	8	6	8	8
Totals	87	80	71	40	96	101	151	73	77	53	62	63	56	81	97	117	94	165	142	123

TABLE No. 3.

Report of Vaccine Physicians for Twelve Months ending December 31, 1881.

Wards.	Names of Physicians	Residence.	Number of Calls.	Number of Vaccinations	Primary.	Secondary.	Successful.	Failed.	Not heard from.	Males.	Females.	White.	Colored.	Re-Vaccinations.	Certificates of Vaccination given.
1st and 2d	J. J Sullivan....	116 Thames street.....	5,756	1,481	737	744	664	513	304	845	636	1,436	45	22	1,873
3d " 4th	S. H. Martin....	133 E. Pratt street.....	2,760	457	395	62	285	44	128	236	221	395	62	...	180
5th " 6th	J. E. Gorsuch...	Fayette and Aisquith sts.	2,114	1,431	1,154	277	1235	86	110	793	638	1,021	410	..	2,198
7th " 8th	E Hall Rutledge	151 Aisquith street.....	5,188	2,983	1,826	1157	1432	310	1241	1,231	1,752	2,600	383	231	1,590
9th " 10th	J V. Coonan....	41 Courtland street.....	1,018	1,141	306	835	204	81	856	446	695	741	400	...	536
11th " 12th	I. R Page.....	220 Linden avenue.....	3,682	1,112	456	656	453	86	573	439	673	530	582	...	600
13th " 14th	J. W. S. Jordan.	126 Mulberry street.....	5,132	1,351	630	721	513	373	465	607	744	842	509	80	663
15th " 16th	J. D. Blake.....	168 S. Paca street.....	4,836	1 843	685	1158	267	31	1545	822	1,021	1,376	467	47	1,638
17th " 18th	J. H. Smith.....	Charles and Hamburg sts	5,848	2,644	831	1813	810	12	1822	1 351	1,329	2.294	350	100	250
19th " 20th	A. H. Saxton....	543 Lexington street.....	3,892	5,528	3,297	2231	3797	....	1731	3,233	2.295	3 288	2240	...	1,282
		Totals.....	40,451	20,100	10,412	9688	9662	1540	8898	10,025	10,075	14,639	5461	480	10,810

TABLE No. 3—Concluded.

SUPPLEMENTARY REPORT.

Wards.	Physicians.	No. of Schools Visited.	No. of Pupils Examined.	Males.	Females.	No. of Vaccinations.	Total No. of Vaccinations
1st and 2d....	J. J. Sullivan.....	15	6,390	3,811	2,579	2,093	3,574
3d " 4th....	S. H. Martin.....	11	2,664	1,607	1,057	493	950
5th " 6th....	J. E. Gorsuch.....	13	3,184	1,728	1,456	2,371	3,802
7th " 8th...	E. Hall Rutledge.....	12	4,320	2,460	1,860	1,971	4,954
9th " 10th...	J. V. Coonan.....	10	1,081	.....	.....	545	1,686
11th " 12th...	I. R. Page.....	10	3,100	1,700	1,400	280	1,392
13th " 14th....	J. W. S. Jordan	11	5,541	2,401	3,140	390	1,741
15th " 16th....	J. D. Blake.....	14	4,629	.....	.....	595	2,438
17th " 18th...	J. H. Smith.....	7	6,000	.....	.....	.....	2,644
19th " 20th....	A. H. Saxton*.....	29	†12,000	.....	.....	....	.....

*Assisted by F. J. Flannery, M. D., and L. R. Wilson, M. D. †Including Vaccinations and Re-Vaccinations.

TABLE No. 4.

LONGEVITY.

The following Decedents, aged Seventy Years, and upwards, are reported for 1881.

Males—White.	Ages.	Males—White.	Ages.
Peter P. Potee	70	Benjamin Saunders	70
Henry Stibbs	70	John T. Johnson	70
Edward Rutter	70	James Quirk	70
Larry L. Collins	70	Duncan McConnell	70
William Lawrence	70	Robert P. Davis	70
August Zahn	70	Samuel H. Cadell	70
John Muth	70	Joseph Katz	70
George F. Sabel	70	John Fitzsimmons	70
James Wright	70	Jacob Hyland	70
Henry Drogger	70	William H. Collins	71
Peter Imhof	70	Alexander Murphy	71
Jerome Dignan	70	Thomas Becket	71
John Hernich	70	John Crockand	71
Horatio Lloyd	70	Jacob Balderston	71
Jacob Bradenbaugh	70	George W. Gray	71
Dr. W. H. Davis	70	Karsten Segeeken	71
J. Montgomery	70	John Thomas	71
T. Lamden	70	George W. Russell	71
T. Elwood	70	Charles A. Winder	71
W. H. Kruger	70	John McCullen	71
A. Schlote	70	Andrew J. Morrow	71
James Worden	70	Henry Strauss	71
Charles Lochnig	70	Patrick Rean	71

TABLE No. 4—Continued.

Males—White.	Ages.	Males—White.	Ages.
Chris. Fichenauer	72	L. Heilner	73
C. Cochran, Jr	72	John Anderson	73
John Townsend	72	Edward Flach	73
Joseph Conklin	72	W. B. Phillips	73
Upton Scott	72	F. A. Kleppish	73
James Jones	72	J. Stockman	73
Mathias Pfeifer	72	J. R. Cann	73
John Kahl	72	Samuel Staines	73
Henry Frank	72	Rev. S. W. Osborne	73
Joseph Mahrer	72	Anthony Degenhardt	73
Lewis Fischer	72	Henry Schuty	73
John G. Parks	72	Robert M. Bean	73
J. Tatham	72	Joseph Neenaber	73
F. Wissman	72	George Lochner	73
David Hirschberg	72	Levi Maxfield	74
Owen Curley	72	John Mallon	74
Charles Towson	72	C. Clemency	74
Henry E. Adams	72	Peter Russell	74
Daniel Schmennen	72	Thomas W. Skirven	74
Joseph Fergusson	72	Jacob Leffer	74
Thomas Murphy	72	William Baker	74
John P. Wheeler	73	John N. Brown	74
Frederick Zimmisch	73	S. S. McPherson	74
George Shaffer	73	John Cozzen	74
Bernard Schene	73	John B. Egerton	74
Andrew Emmert	73	J. McCurley	74
Henry Meyer	73	William Harman	74
Michael Colon	73	Peter C. Andre	74

TABLE No. 4—Continued.

Males—White.	Ages.	Males—White.	Ages.
John Worthington	74	Samuel Haslan	76
Ludwig Eyring	74	Fritz Volf	76
Augustus P. Skinner	74	Patrick Walsh	76
John Fleckenstein	74	Amanuel Schloss	76
John G. Goetzenger	74	Joshua Frizzell	76
T. O. Sollers	75	Richard Holmes	76
John Schermer	75	J. Weternski	76
Edgar Daub	75	G. Chester	76
Stephen Pryor	75	Karl Bert, Sr	76
Nicholas A. Morluzzi	75	George Ritter	76
T. H. Stanford	75	Col. R. B. Coleman	76
B. F. Dove	75	Thomas Newton	76
D. A. Randall	75	Hugh Roloson	76
Hon. A. W. Bradford	75	Jacob Klug	76
Alfred Conway	75	John Miller	76
John A. Barnard	75	Daniel Wall	76
John W. Krebs	75	H. Lange	76
James L. Ridgely	75	Conrad L. Weil	77
George B. Jontz	75	Thomas McNally	77
Benjamin Chaney	75	Basil C. Phillips	77
Laeb Hemnel	75	George Gawns	77
Dr. Nathan Painter	75	W. L. Wilcox, Sr.	77
A. E. Addison	76	A. Wiedlich	77
Thomas Murdoch	76	N. Cornelius	77
Richard Cooke	76	Edward T. Sanders	77
A. R. Strauss	76	Peter Bardroff	77
George Sanger	76	M. A. Hepp	78
Louis Weber	76	Anton Richard	78

TABLE No. 4—Continued.

Males—White.	Ages.	Males—White.	Ages.
Charles Ficter	78	Josiah Small	80
Vincent Galway	78	Maines Froelich	80
Ashall Lampher	78	John Murphy	80
M. M. Glonn	78	Thomas C. Jenkins	80
William Glenn	78	Arthur Millholland, Sr.	81
William P. Cole	78	William Adreon	81
Captain W. C. Lewis	78	Samuel Street	81
Edward T. Jones	78	John McManus	81
Nelson G. Slade	79	James G. Crosby,	81
H. Schandelle	79	Lewis Reihl	81
Henry Koehler	79	William Stuart	81
A. Diessel	79	Patrick Rogers	81
William Stall	79	Daniel Gosweiller	81
Jacob Pflueger	79	Edward Pittman	81
Thomas Dougherty	79	D. S. Courtenay	82
Lewis Riddle	80	John Guyton	82
James Gillen	80	Samuel Savage	82
J. O. Connor	80	James Schofield	82
J. H. Ellicott	80	C. Tyler, Jr	82
George S. Sims	80	George Switzer	82
George Lang	80	Charles H. H. Brown	82
John Miller	80	E. Wells	83
John B. Hall	80	Martin Hauser	83
Dr. Walter H. Middleton	80	Captain Robert Hardie	83
W. W. Beecher	80	Ira Parkhurst	83
Jacob Myers	80	Joseph Bentley	83
Henry Turner	80	John Eschbach	83
William C. Snyder	80	John G. Hewes	84

TABLE No. 4—Continued.

Males—White.	Ages.	Males—White.	Ages.
James B. White	84	John Allman	87
John Holland	84	Joseph Farrar	87
George Turner	84	Phillip Klenner	87
Patrick O'Connor	84	William C. Keener	87
John Hardward	85	W. G. Von Dergner	88
Joseph Bach	85	Daniel Kerr	88
Phillip Hiss	85	Riley Kane	89
Thomas H. Birkey	85	Robert Moody	90
Michael Norris	85	William Wiley	90
Edward Costello	85	J. Pennington	90
David Norton	85	Joseph Smith	91
Chris. Hossbach	86	Henry Riepe	92
Edward Kirby	86	Samuel H. Shaw	92
James Vinson	86	James B. Mannar	92
Joshua Parks	86	William Dunnigan	95
Jacob Burroughs	87		

TABLE No. 4—Continued.

Females—White.	Ages	Females—White.	Ages.
Mary Bollman	70	Ann Carpenter	70
Rebecca Ruark	70	Matilda R. Joyce	70
Elizabeth R. Poe	70	Mary Heaphy	70
Ann H. Holt	70	Nancy Andrews	70
Margaret Cooper	70	Charlotta Hips	70
Rebecca A. Travers	70	Jane Curry	70
A. L. Magers	70	Ann Eliza Webb	70
A. E. Hemling	70	Elizabeth Henry	70
Mrs. Worthington	70	Sally Fairbanks	70
M. McAnaney	70	Jane H. Wolfender	70
Sarah Aikens	70	Eliza Abraham	70
Rachael Hughes	70	R. Leslie	71
S. Gradwahl	70	M. W. Stapleton	71
Laura C. Inglis	70	Sarah A. Glass	71
Anna B. Zeh	70	Ann Dunlap	71
M. L. Emich	70	Mrs. Winkleman	71
Anna R. Mitchell	70	C. M. Salbatt	71
Ann C. Lang	70	J. McCourt	71
Elizabeth Brown	70	M. Flynne	71
Ann Hannin	70	E. Saunders	71
Elizabeth Herold	70	Frances Dunker	71
Henrietta Bewig	70	H. M. Dettmer	71
A. M. Shipley	70	Mary Jennings	71
S. A. McElwee	70	C. Kahn	71
Maria Travers	70	J. Franz	71
Sarah Patterson	70	Emmeline Holland	71
Elizabeth Uzuber	70	Lucy Ann Rine	71
Eliza Phillips	70	Susan Phillips	71

TABLE No. 4—Continued.

Females—White.	Ages.	Females—White.	Ages.
Elizabeth M. Short	71	Helen Streib	72
Annie M. Powell	71	B. Augusta	72
Sophia Samuels	71	Anna M. Muth	72
Jane E. Price	71	Eleanor Wilson	72
S. Bimline	71	E. Schmidt	72
Catharine Rock	71	J. Bruntting	72
Margaret Paine	71	Amanda C. Harding	72
Ann Dillon	71	Mary Dietrich	72
Mary E. Cunningham	71	Elizabeth Haffner	72
L. Schmick	71	Margaret Lurtz	72
Celeste Fernandez	71	Susan Riley	72
Hester Woods	71	Susan Hodgon	73
Lucy H. Balderston	71	Alice Spicer	73
Rosina Boesenberger	71	C. Westwood	73
Ann S. Meteer	71	E. Westerbush	73
Mary D. Pue	72	Elizabeth Ashton	73
A. M. Schalitzky	72	Eliza Gaither	73
T. Greenwood	72	Sophia Swartz	73
Dina Canisins	72	Anna Primrose	73
C. Cathcart	72	Jane L. Coyle	73
Mary Fenton	72	Maria A. Talbott	73
Kate France	72	Ellen Boyle	73
D. H. W. Gamer	72	Magdaline Young	73
Ann Gougle	72	F. A. Forsythe	73
Mary P. Wallace	72	Adaline Hughes	73
Susan Wallace	72	Veronica Hoffman	73
A. W. Moehlman	72	Ellennora O. Moale	73
Caroline Brinkhoff	72	Jane R. Conway	74

TABLE No. 4—Continued.

Females—White.	Ages.	Females—White.	Ages.
E. T. Gallagher	74	Christina Kalbfleish	75
C. Pearson	74	Catharine Dill	75
Mary Foster	74	Ann Davis	75
C. Hierman	74	Eliza Dobins	75
Mary Thomas	74	Hester A. Marshall	75
Mary Robbins	74	Marie Geyer	75
Elizabeth Schad	74	S. DeLoughery	75
Sarah Guyton	74	E. A. Williams	75
A. M. Biedenbach	74	Mary Kennier	75
Mary Burt	74	Sarah Manifold	75
Madeline Warner	74	Julia A. Marshall	75
Elenora Neuberg	74	Elizabeth Helm	75
Mary Collins	74	Rachael L. Merricken	75
J. R. Turner	74	Caroline Moevers	75
Cresline Smith	74	Elizabeth Devine	75
Ann James	74	Mary Gordon	75
Rebecca Meisner	74	Maria E. Weise	75
Elizabeth Oppell	74	Fannie Lowenthal	75
Mary W. Curtis	74	Ann E. Hobbs	76
Margarett Hening	74	Polly Howard	76
Martha Morgan	74	S. J. Gurnhard	76
L. Dietrich	75	L. Brotherton	76
E. Mangum	75	Rosa Brady	76
Debora Smith	75	Eliza Osborne	76
C. Dunlap	75	E. Holland	76
J. Herbert	75	F. Wittbeker	76
C. E. Jones	75	E. P. Crocker	76
Kate Imhof	75	Maria Ogden	76

TABLE No. 4—Continued.

Females—White.	Ages.	Females—White.	Ages.
Annie M. Horning	76	Catharine Bentz	77
Amelia Taylor	76	Mary McGarroll	77
Eliza Umbach	76	Mary Landman	77
Maggie Myers	76	J. A. McCleary	77
J. Eliza Reese	76	E. Merchant	77
Martha Seitz	76	Ann Shearer	77
L. E. Rider	76	Harriett Clarke	77
Catharine Schofield	76	Catharine Bunn	77
M. McArthur	76	Tabitha W. Matthews	77
E. Schlosser	76	Mary D. Bailey	77
Magdaline Krieger	76	Mary Sullivan	77
Honor Donnelly	76	Regina M. Hussmann	77
Elizabeth Gehring	76	Catharine Ford	77
Mary Kain	76	Doretha Wunsch	78
Mary A. Damson	76	S. Borman	78
M. H. Hirdlis	77	L. Weller	78
Margaret Reidinger	77	Mary Kares	78
M. Wahl	77	C. R. Jontz	78
H. R. Hush	77	C. V. Fitzgerald	78
E. Crawford	77	Sophia Linthicum	78
Elizabeth Houck	77	Ellen O'Connell	78
Catharine Broeming	77	Mary Coughlan	78
Mary Huthangs	77	Jane M. Brown	78
Mary A. Burns	77	Catherine Carey	78
Mary Gerhman	77	Sarah J. Gillard	78
Catherine Redmond	77	Mrs. William Dunlap	78
Mary Waldmueller	77	Matilda McFadden	78
Dores Binder	77	C. Mallon	78

TABLE No. 4—Continued.

Females—White.	Ages.	Females—White.	Ages.
Prudence Bush	78	Margaret Hollbrook	80
Sarah A. Tritel	78	E. Schomberg	80
Mary R. Lusby	78	Ann Warner	80
Elizabeth Little	78	Elizabeth Ostendorf	80
Amelia Mann	78	C. Keefe	80
Henrietta Holden	79	Ann Bentley	80
D. Eilau	79	M. A. Jordan	80
R. T. Wilson	79	A. A. Theye	80
Rachael Gagel	79	Agnes Noak	80
Ann Kelly	79	M. Sullivan	80
E. Burgess	79	M. Kaufman	80
R. Glenn	79	A. M. Coline	80
C. Bindeman	79	Annie Lastner	80
B. Snottinger	79	Ann Rowley	80
Eliza Duckett	79	Catharine Kuhne	80
Mary Cullen	79	M. D. Abel	80
Anna S. Fulton	79	Rebecca Baurgelt	80
Barbara Ausbacher	79	Harriett Spedden	80
Charlotta Rinke	79	B. Murphy	80
Fredericka Fischer	79	Mary Rhodes	80
Elizabeth Kuhn	79	Sarah Howell	80
Margarett Appel	79	E. Beaumont	80
Elizabeth Smith	79	Eliza Macher	80
Helen Straus	79	Mary Ann Webber	80
Ann Mary Riepe	79	Isabella Kerr	80
E. McComas	80	Mary A. O'Brian	80
Mary Cunningham	80	Mary Vaughn	80
Ann Gerahty	80	Mary A. Cooper	80

TABLE No. 4—Continued.

Females—White.	Ages.	Females—White.	Ages.
Sarah H. Walker	80	Aramenta Ewalt	81
Catharine Shepherd	80	Elizabeth Mehring	81
Delia Connor	80	Vernatina Weincke	82
Sophia N. Owings	80	E. Weggand	82
Regina B. Quenzler	80	Catharine Gleason	82
Catharine Knox	80	Elizabeth Hunt	82
Susan Oaks	80	H. A. McLain	82
Wilhelmina Poole	80	C. Schuman	82
Ann McGary	80	Rachael Glenn	82
Phillipinae Bendann	80	Mary Kingland	82
Maria W. Miller	80	Jane Jenkins	82
Ann Kemp	81	F. F. Winsett	82
Sarah J. Child	81	Kate Long	82
C. Hilton	81	Julia A. L. Muir	82
Miss Davidson	81	Kunigunda Rappele	82
Mary Diver	81	Annie Raymond	82
Mary Pontier	81	A. E. Zachary	83
Mary Annen	81	F. Barnes	83
J. B. Hamilton	81	Leah Owens	83
Bridget Frisbey	81	Bettie Friedman	83
Charlotte Neal	81	Elizabeth Klug	83
G. K. Pfeifer	81	Mary Ward	83
Tracy Miller	81	Mary Fisher	83
Catharine Rosemer	81	Rosa Smith	83
Elizabeth Taylor	81	Catharine Daiber	83
Elizabeth Sommerville	81	Elizabeth Heyn	83
Margaret Dierbeck	81	Catharine A. Tevelbach	84
Patience Haslup	81	Catharine Dietz	84

TABLE No. 4—Continued.

Females—White.	Ages.	Females—White.	Ages.
Patty Pentony	84	Mary McMahon	86
Esther Tipton	84	Elizabeth Grubb	86
Mary Garrett	84	Emma Hughson	86
Catharine Beck	84	Catharine Welsh	86
E. McCready	84	Catharine Brady	87
Harvey M. Ellicott	84	Jane Brown	87
Sallie Appleby	84	C. Olmier	87
Elenor R. Barrackman	84	Isabella Everist	87
Catharine E. Haverkamp	84	Catharine Burke	87
Conduce Gatch	84	A. Seward	88
Elenora Eichelberger	85	Eliza Taylor	88
Elizabeth Potts	85	Sarah T. Cain	88
Catharine Busby	85	Catharine Hope	88
R. Dinsmore	85	E. W. Beans	88
Fredericka Zeller	85	Mary Funker	88
Elizabeth Lee	85	H. Lipsic	89
M. A. Rawlings	85	Florence Koch	89
Catharine Greentree	85	Margaret S. Chapman	89
Jennie Royster	85	R. Gratz Etting	89
Annie Deer	85	Elizabeth Reisinger	89
Sarah A. Devlin	85	Sarah Darmody	90
Mary Mangan	85	Marrs Wolf	90
Mrs. William Jones	85	Mrs. John Balltaom	90
Elizabeth Bowen	85	Margaret A. Heinz	90
Annie M. Tackenberg	85	Ann Durr	91
Rosanna Fullerton	85	Mary McAllister	91
Delilah Haney	85	Catharine A. Merriken	91
Jemima Kidd	85	Elizabeth Fantom	91

TABLE No. 4—Continued.

Females—White.	Ages.	Females—White.	Ages.
Mary Caughy	92	Mary McDerman	95
A. M. Frey	92	S. E. Fortune	96
Nancy Linthicum	92	Louisa Lumoin	96
Teresa Magruder	92	Mary A. Williams	97
Elizabeth Hunt	93	Rachael Wheeler	97
Ann Little	93	Catharine Deal	98
Catharine Kehoe	93	M. Mitchell	98
Hester Holland	94	Elizabeth A. Peck	100
Annie Hazlip	95	Z. Goldsmith	104

TABLE No. 4—Continued.

Males—Colored.	Ages.	Males—Colored.	Ages.
David Scott	70	Lloyd Mitchell	76
H. Harris	70	James Smith	78
George Downs	70	George Washington	79
Basil Johnson	70	B. Woolford	79
Allen Camphor	70	Charles Taylor	79
William Johnson	70	Anthony Lee	80
Samuel Easton	70	Rueben Stewart	80
Samuel Carter	70	J. Mitchell	80
George S. James	70	Rev. Phillip Scott	81
John Caldwell	70	Lewis Walden	81
Perry Reed	71	Steven Woods	81
John Della	71	Isaac Nicholson	81
Ezekiel Williams	71	Willis Jackson	83
Stephen Wolford	72	John Moore	83
Daniel Shields	72	Andrew Stopins	84
Richard Barrett	72	Nathan Tilman	84
Francis Frederick	72	Rev. Henry Butler	86
James Gibson	72	Benjamin Williams	87
Sargent Newton	75	V. Garland	88
William Snead	75	M. Johnson	90
James Dorsey	75	A. Ridgley	90
Henry Nichols	76	Perry Clarke	91
Jeff Harris	76	Rev. A. Dobson	105

TABLE No. 4—Continued.

Females—Colored.	Ages.	Females—Colored.	Ages.
Mary Hall	70	Sophia Thomas	75
Frances Smith	70	Angelina Carter	75
T. Bishop	70	Henrietta Holliday	75
Mary West	70	Daphene Cornish	75
Deborah Baker	70	Ann Wister	76
Mary Waters	70	Maria Panaway	76
Siddell Russell	70	Elizabeth Thomas	78
Sarah Keys	70	M. A. V. Brown	78
Susan Neureth	70	R. Carney	79
Derrenia Galloway	70	Charity Waters	79
Maria Thomas	70	Lucy Green	79
Nancy Barnes	71	Hannah Howard	80
Mary Brown	71	Rose Shepherd	80
H. Tartar	71	Rachael Smith	80
Debby Wilson	71	Cassa Ruff	80
Louisa Carey	71	Rachael Prescoe	80
Lucinda Pearce	71	Maud Hall	80
Maria Denmark	72	Mary Ann Bentley	80
Rachael Beard	72	Faythe Ross	80
Nancy Chase	72	Lethrete Eaton	80
Anna Mathews	72	Tresaline Francis	80
Sophia Carter	75	Hester Boardley	81
Sarah Allen	75	Ella Stubs	83
Ellen Gwinn	75	E. J. Jones	83
Anna Riley	75	Lucreci Roles	83
Sarah Allegood	75	Hannah Murray	83
Temperance Sterling	75	Ruth Russell	84
Mary C. Jackson	75	Fanny Harris	84

TABLE No. 4—Concluded.

Females—Colored.	Ages.	Females—Colored.	Ages.
Casandra Gant	84	Polly Harris	90
H. Wilson	85	Rachael Barnes	90
D. A. Stewart	85	Annie Carter	90
Sarah Hardy	86	Ann Blackston	91
Charlotte Howard	86	Dorcas Davis	92
Mercy Efferson	88	Annie Sims	94
E. Johnson	89	Hagar Wilson	94
Nancy Dudley	90	Pleasant Underhill	95
Emily Hewitt	90	Julia A. Broughton	98
Nancy Harris	90	Nancy Ellicott	100
Fanny Adams	90	C. Dyson	103
Barbara Lee	90	A. Williams	104

RECAPITULATION.

White Males.			White Females.			Colored Males.			Col'd Females.		
Ages.	Number of Decedents.	Total Years.	Ages.	Number of Decedents.	Total Years.	Ages.	Number of Decedents.	Total Years.	Ages.	Number of Decedents.	Total Years.
70	32	2,240	70	39	2,730	70	10	700	70	11	770
71	14	994	71	32	2,272	71	3	213	71	6	426
72	21	1,512	72	24	1,728	72	5	360	72	4	288
73	21	1,533	73	16	1,168	75	3	225	75	11	825
74	19	1,406	74	22	1,628	76	3	228	76	2	152
75	17	1,275	75	25	1,875	78	1	78	78	2	156
76	23	1,748	76	25	1,900	79	3	237	79	3	237
77	9	693	77	26	2,002	80	3	240	80	10	800
78	10	780	78	20	1,560	81	4	324	81	1	81
79	7	553	79	20	1,580	83	2	166	83	4	332
80	17	1,360	80	42	3,360	84	2	168	84	3	252
81	10	810	81	19	1,539	86	1	86	85	2	170
82	7	574	82	14	1,148	87	1	87	86	2	172
83	6	498	83	10	830	88	1	88	88	1	88
84	5	420	84	12	1,008	90	2	180	89	1	89
85	7	595	85	18	1,530	91	1	91	90	8	720
86	4	344	86	4	344	105	1	105	91	1	91
87	5	435	87	5	435				92	1	92
88	2	176	88	6	528				94	2	188
89	1	89	89	5	445				95	1	95
90	3	270	90	4	360				98	1	98
91	1	91	91	4	364				100	1	100
92	3	276	92	4	368				103	1	103
95	1	95	93	3	279				104	1	104
			94	1	94						
			95	2	190						
			96	2	192						
			97	2	194						
			98	2	196						
			100	1	100						
			104	1	104						
	245	18,767		410	32,051		46	3,576		80	6,429
245, averaging 76 years, 7 months.			410, averaging 78 years, 3 months			46, averaging 77 years, 8 months.			80, averaging 80 years, 4 months.		

Total decedents, whites...655 Colored...126 Grand total...781
Total years, " 50,818 " 10,005 " " 60,823

Average longevity, white, 77 years, 7 months; colored, 79 years, 4 months.
Total average, 77 years, 10 months.

A. R. Carter, *Sec'y Health Dep't.*

TABLE No. 5.

DR. *General Health Account for Twelve Months ending December 31, 1881.* CR.

To 285 Checks on Comptroller...	$15,769 35	By 13	vouchers,	Sanitary Inspectors.....	$5,400 00
		" 11	"	Index Clerk	550 00
		" 5	"	cleaning cesspools	3,757 25
		" 12	"	post-mortems ...	300 00
		" 13	"	telephones.....	226 23
		" 26	"	remov'g patients to Quarantine Hospital; destroying bedding, &c., and interments..	1,284 20
		" 40	"	infect'd bedding and clothing destroy'd, new articles being furnished, as authorized by the Mayor.....	1,643 26
		" 60	"	coffins.....	1,653 50

		" 42	"	advertising.....	441 08
		" 35	"	postage.....	274 34
		" 1	"	annual reports..	271 50
		" 2	"	cesspools.....	14 00
		" 4	"	disinfectants.....	79 65
		" 3	"	analyses.....	45 00
		" 1	"	vaccine virus....	31 00
		" 1	"	Woods' Directory.....	10 00
		" 1	"	survey.....	10 00
		" 1	"	carriage.....	200 00
		" 2	"	repairs.....	106 20
		" 1	"	stamp.....	7 00
		" 1	"	Chicago Sanitary Conference.....	30 00
		" 10	"	sundries.....	35 14
To 285 Checks on Comptroller...	$15,769 35	285	"	for 12 months. .	$15,769 35

A. R. CARTER, *Sec'y Health Dep't.*

TABLE No. 6.

Salary Account for Twelve Months ending December 31, 1881.

Dr.			Cr.
To 14 Checks on Comptroller....	$18,580 07	By 1 voucher, January 1, 1881...	$1,174 97
		" 1 " Feb'ary 1, " ...	1,175 06
		" 1 " March 1, " ..	2,074 97
		" 1 " April 1, " ...	1,258 40
		" 1 " April 29, " ...	29 10
		" 1 " April 30, " ...	1,275 06
		" 1 " May 3, " ...	51 60
		" 1 " June 1, " ...	2,090 90
		" 1 " July 1, " ...	1,275 00
		" 1 " August 1, " ...	1,275 06
		" 1 " Sept'ber 1, " ...	2,174 96
		" 1 " October 1, " ...	1,274 96
		" 1 " Nov'ber 1, " ...	1,274 96
		" 1 " Dec'ber 1, " ...	2,175 07
14 Checks on Comptroller....	$18,580 07	14 vouchers for 12 months.....	$18,580 07

A. R. Carter, *Secretary Health Department.*

TABLE No. 7.

Dr. *Nuisance and Sewer Account for Twelve Months ending December 31, 1881.* Cr.

To 85 Checks on Comptroller.....	$8,600 00	By 12 vouchers,		salaries of Superintendents	$5,536 76
		" 26	"	J. W. Lee, sewer work	1,286 68
		" 18	"	H. Paff, sewer work.....	843 45
		" 12	"	wagon and repairs.....	200 90
		" 2	"	abating nuisances	34 00
		" 9	"	lime and disinfectants.....	625 06
		" 2	"	removing fish from Basin.....	42 25
		" 4	"	tolls and dumps.	30 90
85 Checks on Comptroller.....	$8,600 00	85	"	for 12 months....	$8,600 00

A. R. Carter, *Secretary Health Department.*

TABLE No. 8.

Account of the Quarantine Hospital of the Port of Baltimore for Twelve Months ending December 31, 1881.

Dr.			Cr.	
To 110 Checks on Comptroller...	$15,494 24	By 10 vouchers, pay rolls.....	$10,238	50
		" 12 " provisions.....	1,196	85
		" 12 " groceries.....	918	71
		" 4 " feed.....	64	50
		" 3 " clothing.....	226	98
		" 5 " paints and oils.	152	33
		" 4 " ice.....	57	33
		" 3 " papers.....	21	00
		" 11 " repairs.....	513	45
		" 5 " furniture and bedding.....	363	35
		" 7 " medicine.....	183	75
		" 14 " coal.....	867	71
		" 5 " small pox nurses	210	43
		" 1 " insurance..... ..	77	50
		" 1 " coffins.....	24	00
		" 1 " milk.....	24	40
		" 1 " bread.....	35	65
		" 1 " cleaning sink....	10	00
		" 2 " horse and cow ..	100	00

		" 1	"	seeds	22 03
		" 1	"	flag	28 00
		" 1	"	U. S. Inspector	25 00
		" 1	"	yawl boat	58 00
		" 1	"	rope	7 05
		" 3	"	sundry small bills	67 72
110 Checks on Comptroller	$15,494 24	110	"	for 12 months	$15,494 24

A. R. CARTER, *Secretary Health Department.*

TABLE No. 9.

Statement of Disbursements of the Health Department for Twelve Months ending December 31, 1881.

Street and Garbage Account, including contract for the removal of garbage	$199,773 51
Special appropriation for cleaning streets	9,997 65
General Health Account, including post-mortems	15,769 35
Salary Account	18,580 07
Nuisance and Sewer Account	8,600 00
Quarantine Hospital of the Port of Baltimore	15,494 24
Total disbursements for twelve months	$268,214 82

Unexpended Balances:

Street and Garbage	$ 5 90
Special appropriation for cleaning streets	2 35
General Health	183 08
Quarantine Hospital	5 76
	$197 09

Deficiencies:

General Health	$1,537 05
Quarantine Hospital	466 67
	$2,003 72

A. R. CARTER, *Secretary Health Department.*

REPORT

OF THE

Assistant Commissioner of Health

AND GENERAL SUPERINTENDENT OF STREETS.

REPORT.

Baltimore, January 2, 1882.

JAMES A. STEUART, M. D.,
Commissioner of Health:

SIR:—I herewith respectfully transmit the following report of the work done by the Street and Garbage Department for the fiscal year ending December 31, 1881:

Number of loads of ashes and garbage removed	154,725
Number of loads of street dirt, sand, ice, snow, etc., removed	215,247
Total number of loads of all kinds removed.	369,772
Cost of removal of ashes and garbage	$96,337 50
" " street dirt, sand, ice, snow, &c.	90,270 24
" dumps	3,893 50
" tools and incidentals	1,492 86
Total expenditures	$191,994 10
Deficiency of 1880, paid out of appropriation of 1881	$1,279 41

Amount of appropriation for Street and Garbage Department, (1881)	$193,279 41
Amount of appropriation for Street and Garbage Department expended	193,273 51
Balance	$5 90

Average cost per load, 51⅞ cents.

By a resolution of the City Council, approved January 29, 1881, the sum of ten thousand dollars was appropriated—this being a special appropriation to be used in the payment for labor over and above that employed by this department for the cleaning of the streets. The following summary shows the amount of work performed under this resolution, and the amount of money expended:

Number of loads of ice and snow removed	26,639
Cost of removal of ice and snow	$9,345 05
" tools, etc	652 60
Total expenditures	$9,997 65
Balance	$2 35

Average cost per load, 37½ cents.

The above statement shows that a greater amount of work has been performed by this department than in any preceding year, and at much less cost.

The proper cleaning of the streets is a sanitary measure of the utmost importance; therefore, the funds

appropriated should be ample and sufficient to enable the department to thoroughly clean the streets and disinfect the gutters. The greater portion of this work can and should be done at night, as a great deal more can be accomplished whilst the streets are comparatively deserted and the employees are not incommoded by vehicles. The streets and alleys have been kept in good condition as regards cleanliness, except during the months of November and December, when by reason of the insufficient appropriation, the general upheaval of the streets by the gas companies, railway companies and others, it was impossible to remove the dirt from them.

There should be some means, with the ample supply of water which we now have, applied, by which the gutters and sewers of our city can be flushed, in order to wash off the material which is deposited therein and undergoes decomposition. The flushing of the gutters and sewers should be done as often as may be deemed necessary by this department.

Disinfectants are used when necessary, effecting only temporary relief, however; whilst with an ample supply of water (the most economical and efficient disinfectant,) these disease-breeding substances can be removed.

A great defect is observable in the streets of our city, namely: the surface drainage. House sweepings, kitchen slops, etc., find their way into the open gutters; pools of water collect at various depressed points, giving rise to miasms and odors that are anything but conducive to health during the hot weather, and in winter

time invade the adjoining pavements by extension of layers, forming broad sheets of ice, dangerous to life and limb. All of this nuisance can be obviated, and the streets kept dry and free from offensive and pestilential odors, and sidewalks free from ice, by a proper system of sewerage.

The present sewers of our city are not self-cleansing, and in consequence thereof there is imposed upon this department an immense amount of work, for which there should be given a sufficient sum to thoroughly clean and disinfect them.

I again call attention to the ventilation of the sewers. The importance of the removal of foul gases from them cannot be properly estimated; and this necessity exists in all of them. During the past year there has been removed from the different sewers 2,509 loads of filth, &c.

Unclean streets, gutters and sewers all vitiate the atmosphere and furnish abundant cause for the propagation of preventable diseases; and it should be the duty of the City Council to give sufficient means to the department to enable it to promote the public health.

The preservation of the public health has great bearings upon political economy, and should be a matter of more legislative concern. "We should remember that the most severe tax to pay is the 'debt of nature,' and next to that, the heavy tax which sickness always entails, and in one way or another forces the collection of. * * * * Although the sickness from preventable causes is usually most severe among the poor and ignorant, communicable diseases are no respecters of persons; and the poorest resident of a back alley may be able to

give to the richest citizen the most loathsome, fatal or rapidly-spreading disease. As 'the strength of a chain is the strength of its weakest link,' so the health and strength of a community may depend upon the health and strength of the weakest members. No man can live for himself alone; but whether he knows it or not, he has a vital interest in the health and prosperity of his fellow-being." † There should be no need of argument to show that sickness is one of the greatest burdens upon prosperity, and if preventable, should not escape the attention of the legislator.

During the past year a large number of nuisances have been abated, vacant lots filled, and a large number of alleys graded and paved.

The attention of the City Council should be called to the following streets that are built upon and are in a state of nuisance, which can be abated only by grading and paving:

Binney street,	between	O'Donnell and	Boston streets.
Luzerne "	"	Aliceanna and	Eastern avenue.
Rose "	"	Lancaster "	"
Cannon "	"	" "	"
Harris alley,	"	Hudson and	O'Donnell streets.
N. Wolfe street,	"	Monument and	Chew "
" "	"	Biddle and	Chase "
Cooksie "	"	Fort avenue and	Cuba street.
Cuba "	"	Hull street and	Andre "
Mosher "	"	Fulton avenue and	Gilmor "
Tennant "	"	" "	" "
Whatcoat "	"	Mosher street and	Winchester street.

† Henry B. Baker, M.D., State Board of Health, Mich.

Calhoun street extended; and
Mount street, north of Lorman street.

I would respectfully suggest that the City Council revise the greater portion of the health ordinances, as they are in many instances very defective, and make the efforts of the department nugatory. There should be an ordinance regulating the work of plumbing, and placing all work of this character under the supervision of this department.

The tables accompanying this report will show the amount of work in detail of the Street and Garbage Department, Sanitary Inspectors, Nuisance and Permit Clerks and Superintendents of Public Cemeteries.

The thanks of this department are due the Police and Fire Departments for the many favors they have kindly shown.

In conclusion, I return you my thanks for your courteous treatment, and hope that my efforts have met with your approval.

I remain,

Very respectfully,

Your obedient servant,

JAMES F. McSHANE, M.D.,
Assistant Commissioner of Health and
General Superintendent of Streets.

TABLES.

TABLE A.

Weekly Report showing amount of work done and number of men employed in the several Districts; also amount of money expended for same, for twelve months ending December 31, 1881.

FIRST DISTRICT. B. V. KELLY, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed	Total Amount of Expenditures.
Week ending January 1.	498	1930	$240 00	$603 00	16	18	39	2428	$843 00
" " 8.	583	1914	288 00	613 50	16	18	40	2497	901 50
" " 15.	557	2195	288 00	645 75	16	16	47	2752	933 75
" " 22.	566	2394	288 00	642 00	16	16	48	2960	930 00
" " 29.	528	2551	288 00	668 25	16	15	48	3079	956 25
	2732	10,984	$1392 00	$3172 50	80	83	222	13,716	$4564 50
Week ending Feb'y 5...	556	1577	$288 00	$348 00	16	9	20	2133	$636 00
" " 12...	546	1340	288 00	348 00	16	9	20	1886	636 00
" " 19...	561	1550	288 00	348 00	16	9	20	2111	636 00
" " 26...	561	1630	288 00	348 00	16	9	20	2191	636 00
	2224	6097	$1152 00	$1392 00	64	36	80	8321	$2544 00

Week ending March 5. .	562	1075	$288 00	$345 70	16	9	20	1637	$633 70
" " 12...	536	885	288 00	344 25	16	10	20	1421	632 25
" " 19...	557	724	288 00	357 00	16	9	22	1281	645 00
" " 26...	534	905	288 00	363 00	16	10	22	1439	651 00
	2189	3589	$1152 00	$1409 95	64	38	84	5778	$2561 95
Week ending April 2....	539	1125	$288 00	$342 75	16	9	22	1664	$630 75
" " 9...	543	960	288 00	372 00	16	10	21	1503	660 00
" " 16....	548	905	288 00	369 75	16	10	22	1453	657 75
" " 23....	550	907	288 00	371 25	16	10	21	1457	659 25
	2180	3897	$1152 00	$1455 75	64	39	86	6077	$2607 75
Week ending May 2.....	556	1015	$288 00	$372 38	16	10	21	1571	$660 38
" " 9.....	541	960	288 00	375 40	16	10	22	1501	663 40
" " 16.....	502	955	243 00	382 50	16	10	23	1457	625 50
" " 23.....	499	908	240 00	363 38	16	11	23	1407	603 38
" " 30.....	493	905	243 00	384 00	16	10	24	1398	627 00
	2591	4743	$1302 00	$1877 66	80	51	113	7334	$3179 66

TABLE A—Continued.

FIRST DISTRICT. — B. V. KELLY, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending June 4.....	487	910	$243 00	$364 92	16	10	23	1397	$607 92
" " 11.....	498	690	240 00	283 53	16	10	22	1188	523 53
" " 18.....	469	900	240 00	353 25	16	10	22	1369	593 25
" " 25.....	499	1460	288 00	462 00	16	12	27	1959	750 00
	1953	3960	$1011 00	$1463 70	64	42	94	5913	$2474 70
Week ending July 2.....	508	775	$288 00	$384 00	16	12	28	1283	$672 00
" " 9.....	501	680	288 00	342 00	16	10	24	1181	630 00
" " 16.....	499	970	288 00	339 00	16	11	23	1469	627 00
" " 23.....	507	780	288 00	351 00	16	10	25	1287	639 00
	2015	3205	$1152 00	$1416 00	64	43	100	5220	$2568 00

Week ending August 1..	508	855	$288 00	$364 50	16	11	25	1363	$652 50
" " 8..	272	712	288 00	318 75	16	10	25	984	606 75
" " 15..	312	536	288 00	275 25	16	8	20	848	563 25
" " 22..	482	590	288 00	282 00	16	8	20	1072	570 00
" " 29..	494	635	288 00	299 25	16	9	21	1129	587 25
	2068	3328	$1440 00	$1539 75	80	46	111	5396	$2979 75
Week ending Sept. 3.. .	504	705	$288 00	$304 50	16	9	21	1209	$592 50
" " 10.....	418	405	240 00	212 25	16	9	21	823	452 25
" " 17.....	445	400	240 00	178 50	16	8	20	845	418 50
" " 24....	438	390	240 00	187 50	16	8	20	828	427 50
	1805	1900	$1008 00	$882 75	64	34	82	3705	$1890 75
Week ending October 3.	456	420	$240 00	$178 50	16	8	20	876	$418 50
" " 10.	436	735	240 00	327 00	16	8	20	1171	567 00
" " 17.	480	465	240 00	187 50	16	8	20	945	427 50
" " 24.	487	585	240 00	240 00	16	9	20	1072	480 00
" " 31.	476	705	240 00	300 00	16	9	21	1181	540 00
	2335	2910	$1200 00	$1233 00	80	42	101	5245	$2433 00

TABLE A—Continued.

FIRST DISTRICT. B. V. KELLY, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending Nov. 5.....	467	575	$240 00	$234 75	16	10	21	1042	$474 75
" " 12.....	488	675	240 00	267 00	16	11	21	1163	507 00
" " 19.....	468	385	240 00	187 50	16	7	12	853	427 50
" " 26.....	464	555	240 00	217 50	16	8	14	1019	457 50
	1887	2190	$960 00	$906 75	64	36	68	4077	$1866 75
Week ending Dec. 3.....	463	390	$240 00	$151 00	16	7	13	853	$391 00
" " 10.....	473	225	240 00	81 00	16	6	10	698	321 00
" " 17.....	486	195	240 00	70 50	16	6	10	681	310 50
" " 24.....	490	.....	240 00	.....	16	...	...	490	240 00
	1912	810	$960 00	$302 50	64	19	33	2722	$1262 50

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

SECOND DISTRICT.

JOSEPH P. SCOTT, Sup't.

Week ending January 3.	373	1761	$312 00	$372 00	18	13	26	2134	$684 00
" " 10.	510	4948	324 00	654 75	18	16	40	5458	978 75
" " 17.	458	2386	336 00	505 50	19	13	37	2844	841 50
" " 24.	463	2340	378 00	513 00	21	14	35	2803	891 00
" " 31.	458	1260	378 00	428 25	21	10	26	1718	806 25
	2262	12,695	$1728 00	$2473 50	97	66	164	14,957	$4201 50
Week ending Feb'y 7...	479	1898	$378 00	$323 25	21	10	14	2377	$701 25
" " 14...	528	1680	378 00	292 50	21	10	14	2208	670 50
" " 21...	518	1210	378 00	324 00	21	10	15	1728	702 00
" " 28...	512	900	378 00	301 50	21	10	14	1412	679 50
	2037	5688	$1512 00	$1241 25	84	40	57	7725	$2753 25
Week ending March 7...	463	280	$378 00	$196 50	21	10	15	743	$574 50
" " 14...	498	360	378 00	227 25	21	10	13	858	605 25
" " 21...	508	470	378 00	251 25	21	10	15	978	629 25
" " 28...	499	450	378 00	249 75	21	10	15	949	627 75
	1968	1560	$1512 00	$924 75	84	40	58	3528	$2436 75

TABLE A—Continued.

SECOND DISTRICT. — JOSEPH P. SCOTT, Sup't.	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending April 4....	523	491	$372 00	$270 75	21	10	15	1014	$642 75
" " 11....	598	505	378 00	263 25	21	10	15	1103	641 22
" " 18....	558	460	378 00	251 25	21	10	15	1018	629 25
" " 25....	556	550	378 00	289 50	21	10	15	1106	667 50
	2235	2006	$1506 00	$1074 75	84	40	60	4241	$2580 75
Week ending May 2.....	506	500	$378 00	$315 00	21	10	15	1006	$693 00
" " 9.....	471	513	315 00	293 25	21	10	15	984	608 25
" " 16.....	466	540	315 00	315 00	21	10	15	1006	630 00
" " 23.....	397	495	315 00	285 00	21	10	16	892	600 00
" " 30.	416	460	315 00	304 50	21	10	16	876	619 50
	2256	2508	$1638 00	$1512 75	105	50	77	4764	$3150 75

Week ending June 6.....	406	376	$315 00	$255 75	21	9	16	782	$570 75
" " 13....	381	474	312 00	285 00	21	10	15	855	597 00
" " 20....	421	448	378 00	296 25	21	10	15	869	674 25
" " 27....	396	684	378 00	306 00	21	10	15	1080	684 00
	1604	1982	$1383 00	$1143 00	84	39	61	3586	$2526 00
Week ending July 4.....	405	520	$372 00	$284 25	21	10	15	925	$656 25
" " 11.....	415	476	378 00	313 50	21	10	15	891	691 50
" " 18.....	410	621	375 00	285 37	21	10	16	1031	660 37
" " 25.....	404	860	378 00	309 75	21	10	16	1264	687 75
	1634	2477	$1503 00	$1192 87	84	40	62	4111	$2695 87
Week ending August 1..	410	900	$378 00	$324 00	21	10	16	1310	$702 00
" " 8..	414	825	373 50	298 50	21	10	16	1239	672 00
" " 15..	425	750	372 00	270 00	21	10	16	1175	642 00
" " 22..	558	750	378 00	274 50	21	10	16	1208	652 50
" " 29..	460	735	378 00	267 75	21	9	16	1195	645 75
	2167	3960	$1879 50	$1434 75	105	49	80	6127	$3314 25

TABLE A—Continued.

SECOND DISTRICT. JOSEPH P. SCOTT, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending Sept. 5....	459	697	$378 00	$264 00	21	10	16	1156	$642 00
" " 12.....	466	450	315 00	157 50	21	9	14	866	472 50
" " 19.....	406	420	315 00	159 00	21	10	14	826	474 00
" " 26.....	400	405	315 00	156 00	21	9	14	805	471 00
	1681	1972	$1323 00	$736 50	84	38	58	3653	$2059 50
Week ending October 4.	368	420	$312 00	$151 50	21	9	13	788	$463 50
" " 11.	393	900	315 00	309 00	21	10	15	1293	624 00
" " 18.	395	225	309 00	129 75	21	10	13	620	438 75
" " 25.	393	607	300 00	220 50	20	9	14	1000	520 50
	1549	2152	$1236 00	$810 75	83	38	55	3701	$2046 75

Week ending Nov. 1.....	393	630	$300 00	$229 50	20	9	14	1023	$529 50
" " 7.....	397	294	300 00	150 00	20	9	14	691	450 00
" " 14.....	406	384	300 00	175 50	20	9	14	790	475 50
" " 21.....	457	300	300 00	150 00	20	5	10	757	450 00
" " 28	467	294	300 00	150 00	20	5	10	761	450 00
	2120	1902	$1500 00	$855 00	100	37	62	4022	$2355 00
Week ending Dec. 5.....	507	152	$300 00	$120 00	20	5	10	659	$420 00
" " 12.....	501	48	294 00	59 25	20	6	10	549	353 25
" " 19.....	524	40	300 00	43 50	20	4	10	564	343 50
" " 26.....	521	.....	300 00	.....	20	...	...	521	300 00
	2053	240	$1194 00	$222 75	80	15	30	2293	$1416 75

JAMES F. McSHANE, M. D., *Assistant Commissioner of Health.*

TABLE A—Continued.

THIRD DISTRICT. — MICHAEL FADGEN, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending January 5.	699	1000	$300 00	$558 75	20	17	34	1699	$858 75
" " 12.	703	1710	303 00	669 00	20	20	45	2413	972 00
" " 19.	701	1785	306 00	701 25	20	20	42	2486	1007 25
" " 26.	724	1800	360 00	708 00	20	20	44	2524	1068 00
	2827	6295	$1269 00	$2637 00	80	77	165	9122	$3906 00
Week ending Feb'y 2...	753	1045	$360 00	$342 00	20	11	16	1798	$702 00
" " 9...	741	990	360 00	342 75	21	11	17	1731	702 75
" " 16...	733	995	360 00	339 00	20	11	17	1728	699 00
" " 23...	729	1045	360 00	349 50	20	11	17	1774	709 50
	2956	4075	$1440 00	$1373 25	81	44	67	7031	$2813 25

Week ending March 2...	735	1555	$360 00	$546 00	20	18	27	2290	$906 00
" " 9...	687	416	342 00	289 45	21	11	19	1103	631 45
" " 16...	619	652	306 00	384 75	18	14	24	1271	690 75
" " 23...	587	1200	306 00	434 25	17	16	24	1787	740 25
" " 30...	574	1040	324 00	471 75	18	16	23	1614	795 75
	3202	4863	$1638 00	$2126 20	94	75	117	8065	$3764 20
Week ending April 6....	572	1170	$321 00	$443 25	18	17	25	1742	$764 25
" " 13....	573	1152	315 00	507 00	18	16	25	1725	822 00
" " 20....	514	628	306 00	340 50	17	15	26	1142	646 50
" " 27....	554	801	306 00	340 50	17	11	19	1355	646 50
	2213	3751	$1248 00	$1631 25	70	59	95	5964	$2879 25
Week ending May 4.....	554	660	$303 00	$346 50	17	11	19	1214	$649 50
" " 11.....	567	493	258 00	325 50	17	12	22	1060	583 50
" " 18.....	565	568	255 00	344 25	17	10	21	1133	599 25
" " 25.....	530	695	258 00	325 50	17	13	20	1225	583 50
	2216	2416	$1074 00	$1341 75	68	46	82	4632	$2415 75

TABLE A—Continued.

THIRD DISTRICT. MICHAEL FADGEN, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed	Total Amount of Expenditures.
Week ending June 1.....	535	760	$258 00	$352 50	17	11	19	1295	$610 50
" " 8.....	538	816	255 00	339 75	17	12	21	1354	594 75
" " 15.....	546	770	255 00	342 75	17	11	22	1316	597 75
" " 22.....	552	772	306 00	376 50	17	11	24	1324	682 50
" " 29.....	555	852	306 00	389 25	17	12	22	1407	695 25
	2726	3970	$1380 00	$1800 75	85	57	108	6696	$3180 75
Week ending July 6.....	565	748	$306 00	$392 25	17	11	23	1313	$698 25
" " 13.....	561	831	306 00	390 75	17	12	23	1392	696 75
" " 20.....	562	756	306 00	391 50	17	12	25	1318	697 50
" " 27.....	602	800	306 00	391 50	18	12	24	1402	697 50
	2290	3135	$1224 00	$1566 00	69	47	95	5425	$2790 00

Week ending August 2..	570	601	$312 00	$385 50	18	11	22	1171	$697 50
" " 9..	568	822	303 00	393 75	17	12	24	1390	696 75
" " 16..	574	550	306 00	387 75	17	11	23	1124	693 75
" " 23..	536	884	306 00	391 50	17	12	22	1420	697 50
" " 30..	524	770	306 00	390 75	17	11	22	1294	696 75
	2772	3627	$1533 00	$1949 25	86	57	113	6399	$3482 25
Week ending Sept. 7....	529	840	$306 00	$393 00	17	12	23	1369	$699 00
" " 14....	365	234	255 00	154 50	17	9	16	599	409 50
" " 21....	498	190	255 00	173 25	17	10	17	688	428 25
" " 28....	496	369	255 00	175 50	17	9	19	865	430 50
	1888	1633	$1071 00	$896 25	68	40	75	3521	$1967 25
Week ending October 5.	496	540	$255 00	$217 50	17	10	19	1036	$472 50
" " 12.	511	952	255 00	412 50	17	12	22	1463	667 50
" " 19.	520	233	255 00	123 75	17	11	15	753	378 75
" " 26.	493	570	255 00	336 75	17	12	19	1063	591 75
	2020	2295.	$1020 00	$1090 50	68	45	75	4315	$2110 50

TABLE A—Continued.

THIRD DISTRICT. — MICHAEL FADGEN, Sup't.	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending Nov. 2.....	529	519	$255 00	$319 50	17	12	18	1048	$574 50
" " 9.....	474	606	255 00	324 75	17	12	20	1080	579 75
" " 16.....	486	595	255 00	312 75	17	12	18	1081	567 75
" " 23.....	480	232	258 00	159 75	17	8	17	712	417 75
" " 30.....	453	190	258 00	156 75	17	8	16	643	414 75
	2422	2142	$1281 00	$1273 50	85	52	89	4564	$2554 50
Week ending Dec. 7.....	513	146	$255 00	$103 50	17	8	15	659	$358 50
" " 14.....	509	144	255 00	111 75	17	8	15	653	366 75
" " 21	511	145	255 00	100 50	17	7	16	656	355 50
" " 28.....	439	.....	255 00	.....	18	...	...	439	255 00
	1972	435	$1020 00	$315 75	69	23	46	2407	$1335 75

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

FOURTH DISTRICT.

LOUIS KROEGER, Sup't.

Week ending January 6.	597	586	$396 00	$377 63	22	12	26	1183	$773 63
" " 13.	613	662	396 00	547 13	22	15	47	1275	943 13
" " 20.	608	714	396 00	477 00	22	15	27	1322	873 00
" " 27.	619	967	396 00	679 50	22	18	50	1586	1075 50
	2437	2929	$1584 00	$2081 26	88	60	150	5366	$3665 26
Week ending Feb'y 3...	593	563	$396 00	$355 50	22	9	22	1156	$751 50
" " 10...	637	692	396 00	374 25	22	9	22	1329	770 25
" " 17...	667	617	396 00	341 67	22	9	22	1284	737 67
" " 24...	636	679	396 00	391 51	22	9	22	1315	787 51
	2533	2551	$1584 00	$1462 93	88	36	88	5084	$3046 93
Week ending March 3...	593	614	$396 00	$459 90	22	19	25	1207	$855 90
" " 10...	559	381	366 00	304 30	22	11	22	940	670 30
" " 17...	453	351	306 00	294 00	17	9	21	804	600 00
" " 24...	432	409	306 00	332 25	17	9	20	841	638 25
" " 31...	453	419	324 00	343 50	18	9	20	872	667 50
	2490	2174	$1698 00	$1733 95	96	57	108	4664	$3431 95

TABLE A—Continued.

FOURTH DISTRICT. LOUIS KROEGER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c	Number of Garbage Carts Employed	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed	Total Amount of Expenditures.
Week ending April 7....	455	448	$324 00	$348 00	18	10	20	903	$672 00
" " 14....	440	391	324 00	324 75	18	9	21	831	648 75
" " 21....	452	415	324 00	336 75	18	9	20	867	660 75
" " 28....	425	658	324 00	363 00	18	9	22	1083	687 00
	1772	1912	$1296 00	$1372 50	72	37	83	3684	$2668 50
Week ending May 5.....	415	431	$324 00	$357 04	18	9	22	846	$681 04
" " 12.....	381	426	270 00	363 75	18	9	23	807	633 75
" " 19.....	413	430	270 00	369 75	18	9	23	843	639 75
" " 26.....	373	417	270 00	356 25	18	9	23	790	626 25
	1582	1704	$1134 00	$1446 79	72	36	91	3286	$2580 79

Week ending June 2.....	377	447	$270 00	$381 00	18	9	24	824	$651 00
" " 9.....	379	339	270 00	299 25	18	9	23	718	569 25
" " 16.....	370	414	270 00	362 25	18	9	23	784	632 25
" " 23.....	357	423	336 00	358 92	19	9	24	780	694 92
" " 30.....	369	510	342 00	386 26	19	9	24	879	728 26
	1852	2133	$1488 00	$1787 68	92	45	118	3985	$3275 68
Week ending July 7.....	361	498	$342 00	$369 75	19	9	24	859	$711 75
" " 14.....	372	506	342 00	381 75	19	9	24	878	723 75
" " 21.....	360	483	342 00	375 00	19	9	24	843	717 00
" " 28.....	352	487	342 00	381 00	19	9	24	839	723 00
	1445	1974	$1368 00	$1507 50	76	36	96	3419	$2875 50
Week ending August 4..	360	488	$342 00	$381 75	19	9	24	848	$723 75
" " 11..	404	460	342 00	371 25	19	9	24	864	713 25
" " 18..	400	448	342 00	369 00	19	9	24	848	711 00
" " 25..	435	419	342 00	298 50	19	9	20	854	640 50
	1599	1815	$1368 00	$1420 50	76	36	92	3414	$2788 50

TABLE A—Continued.

FOURTH DISTRICT. LOUIS KROEGER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed	Total Amount of Expenditures.
Week ending Sept. 1....	445	431	$342 00	$309 00	19	9	21	876	$651 00
" " 8....	438	421	342 00	303 00	19	9	21	859	645 00
" " 15....	409	259	285 00	183 75	19	9	20	668	468 75
" " 22....	352	252	285 00	189 00	19	9	20	604	474 00
" " 29....	331	305	285 00	208 50	19	9	20	636	493 50
	1975	1668	$1539 00	$1193 25	95	45	102	3643	$2732 25
Week ending October 6.	343	497	$285 00	$341 25	19	9	20	840	$626 25
" " 13.	355	481	285 00	381 00	19	9	20	836	666 00
" " 20.	345	315	285 00	205 75	19	9	20	660	490 75
" " 27.	336	405	285 00	289 50	19	9	20	741	574 50
	1379	1698	$1140 00	$1217 50	76	36	80	3077	$2357 50

Week ending Nov. 3.....	352	407	$285 00	$257 25	19	9	20	759	$542 25
" " 10.....	282	407	285 00	291 75	19	9	20	689	576 75
" " 17.....	371	194	285 00	180 75	19	10	20	565	465 75
" " 24.....	351	231	255 00	173 25	17	6	11	582	428 25
	1356	1239	$1110 00	$903 00	74	34	71	2595	$2013 00
Week ending Dec. 1.....	379	243	$255 00	$183 00	17	6	12	622	$438 00
" " 8.....	398	106	255 00	87 75	17	5	10	504	342 75
" " 15.....	468	92	255 00	75 75	17	6	12	560	330 75
" " 22.....	476	81	255 00	71 25	17	6	10	557	326 25
" " 29	497	.....	255 00	.....	17	...	...	497	255 00
	2218	522	$1275 00	$417 75	85	23	44	2740	$1692 75

JAMES F. McSHANE, M. D., *Assistant Commissioner of Health.*

TABLE A—Continued.

FIFTH DISTRICT. JOHN MEAGHER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending January 7.	941	3000	$486 00	$810 00	27	25	40	3941	$1296 00
" " 14.	937	5780	486 00	841 50	27	25	46	6717	1327 50
" " 21.	909	2850	486 00	692 25	27	20	40	3759	1178 25
" " 28.	933	3270	486 00	876 00	27	30	54	4203	1362 00
	3720	14,900	$1944 00	$3219 75	108	100	180	18,620	$5163 75
Week ending Feb'y 4....	895	1950	$486 00	$430 50	27	13	22	2845	$916 50
" " 11....	952	1976	486 00	413 25	27	13	20	2928	899 25
" " 18....	944	2340	486 00	415 50	27	13	20	3284	901 50
" " 25....	908	1716	486 00	399 75	27	13	19	2624	885 75
	3699	7982	$1944 00	$1659 00	108	52	81	11,681	$3603 00

Week ending March 4...	920	1586	$486 00	$417 00	27	13	21	2506	$903 00
" " 11..	574	529	297 00	261 75	33	15	24	1103	558 75
" " 18..	583	503	387 00	222 00	26	7	13	1086	609 00
" " 25..	552	707	306 00	234 75	17	9	14	1259	540 75
	2629	3325	$1476 00	$1135 50	103	44	72	5954	$2611 50
Week ending April 1....	521	476	$306 00	$221 25	17	9	14	997	$527 25
" " 8...	555	584	306 00	239 25	17	9	15	1139	545 25
" " 15....	522	673	306 00	237 75	17	9	14	1195	543 75
" " 22....	530	653	306 00	253 50	17	9	15	1183	559 50
" " 29....	476	559	306 00	269 25	17	10	16	1135	575 25
	2604	3045	$1530 00	$1221 00	85	46	74	5649	$2751 00
Week ending May 6.....	451	598	$315 00	$273 00	18	10	16	1049	$588 00
" " 13.....	423	588	270 00	265 50	18	9	16	1011	535 50
" " 20.....	410	740	270 00	276 75	18	9	17	1150	546 75
" " 27.....	475	577	270 00	238 50	18	9	16	1052	508 50
	1759	2503	$1125 00	$1053 75	72	37	65	4262	$2178 75

TABLE A—Continued.

FIFTH DISTRICT. — JOHN MEAGHER, Sup't.	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending June 3.....	442	810	$270 00	$320 25	18	9	18	1252	$590 25
" " 10.....	436	589	270 00	220 50	18	9	16	1025	490 50
" " 17.....	446	726	324 00	279 75	18	9	17	1172	603 75
" " 24.....	379	730	324 00	298 50	18	9	18	1109	622 50
	1703	2855	$1188 00	$1119 00	72	36	69	4558	$2307 00
Week ending July 1.....	421	784	$324 00	$279 75	18	9	18	1205	$603 75
" " 8.....	406	757	324 00	312 75	18	9	18	1163	636 75
" " 15.....	382	742	324 00	295 50	18	9	17	1124	619 50
" " 22.....	413	786	324 00	309 75	18	9	18	1199	633 75
" " 29.....	409	786	324 00	311 25	18	9	19	1195	635 25
	2031	3855	$1620 00	$1509 00	90	45	90	5886	$3129 00

Week ending August 5 .	382	705	$324 00	$306 75	18	9	18	1087	$630 75
" " 12...	420	776	324 00	270 00	18	9	16	1196	594 00
" " 19...	425	800	324 00	285 00	18	9	17	1225	609 00
" " 26...	435	842	324 00	274 50	18	9	16	1277	598 50
	1662	3123	$1296 00	$1136 25	72	36	67	4785	$2432 25
Week ending Sept. 2....	342	752	$324 00	$267 00	18	9	16	1094	$591 00
" " 9...	409	408	270 00	166 50	18	9	15	817	436 50
" " 16....	430	435	270 00	144 00	18	9	12	865	414 00
" " 23....	418	368	270 00	126 75	18	8	11	786	396 75
" " 30....	411	330	270 00	116 25	18	7	10	741	386 25
	2010	2293	$1404 00	$820 50	90	42	64	4303	$2224 50
Week ending October 7.	389	840	$270 00	$273 00	18	9	15	1229	$543 00
" " 14.	402	671	270 00	215 25	18	9	16	1073	485 25
" " 21.	402	360	270 00	127 50	18	6	10	762	397 50
" " 28.	417	768	270 00	255 00	18	9	14	1185	525 00
	1610	2639	$1080 00	$870 75	72	33	55	4249	$1950 75

TABLE A—Continued.

FIFTH DISTRICT. — JOHN MEAGHER, Sup't.	Garbage and Ashes Removed.	Street Dirt Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending Nov. 4.....	418	488	$270 00	$165 75	18	9	15	906	$435 75
" " 11.....	428	372	270 00	132 75	18	9	15	800	402 75
" " 18.....	443	324	270 00	108 75	18	10	12	767	378 75
" " 25.....	442	416	240 00	133 50	16	7	9	858	373 50
	1731	1600	$1050 00	$540 75	70	35	51	3331	$1590 75
Week ending Dec. 2	587	399	$240 00	$122 25	16	8	10	986	$362 25
" " 9	475	155	240 00	66 00	16	5	8	630	306 00
" " 16	514	86	240 00	51 00	16	8	8	600	291 00
" " 23	529	.....	240 00	.....	16	...	...	529	240 00
" " 30.	332	.....	120 00	.....	16	...	...	332	120 00
	2437	640	$1080 00	$239 25	80	21	26	3077	$1319 25

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

SIXTH DISTRICT.

HENRY LANCASTER, Sup't.

Week ending March 10.	470	185	$276 00	$105 75	23	7	14	655	$381 75
" " 18.	835	477	414 00	294 00	23	10	16	1312	708 00
" " 26.	788	501	408 00	272 25	23	9	17	1289	680 25
	2093	1163	$1098.00	$672 00	69	26	47	3256	$1770 00
Week ending April 2....	763	706	$396 00	$252 00	22	11	17	1469	$648 00
" " 9....	811	680	414 00	296 25	23	10	19	1491	710 25
" " 16....	750	599	414 00	277 50	23	9	21	1349	691 50
" " 23....	712	680	414 00	316 50	23	10	20	1392	730 50
" " 30....	706	535	414 00	283 50	23	10	20	1241	697 50
	3742	3200	$2052 00	$1425 75	114	50	97	6942	$3477 75
Week ending May 6.....	677	655	$414 00	$279 00	23	9	19	1332	$693 00
" " 14.....	640	418	345 00	290 25	23	9	21	1058	635 25
" " 21.....	633	666	345 00	294 00	23	9	20	1299	639 00
" " 28.....	609	532	345 00	291 00	23	10	24	1141	636 00
	2559	2271	$1449 00	$1154 25	92	37	84	4830	$2603 25

TABLE A—Continued.

SIXTH DISTRICT. HENRY LANCASTER, Sup't	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed	Total Amount of Expenditures.
Week ending June 3.....	586	631	$345 00	$310 50	23	10	20	1217	$655 50
" " 10.....	578	531	345 00	297 00	23	11	20	1109	642 00
" " 17.....	733	864	414 00	347 25	23	11	20	1597	761 25
" " 24.....	548	794	414 00	321 75	23	10	19	1342	735 75
	2445	2820	$1518 00	$1276 50	92	42	79	5265	$2794 50
Week ending July 1.....	548	668	$420 00	$335 25	23	10	19	1216	$755 25
" " 8.....	511	470	414 00	324 75	23	10	19	981	738 75
" " 15.....	534	669	414 00	330 75	23	10	20	1203	744 75
" " 22.....	538	585	414 00	321 75	23	9	19	1123	735 75
" " 29	533	603	414 00	328 50	23	9	20	1136	742 50
	2664	2995	$2076 00	$1641 00	115	48	97	5659	$3717 00

Week ending August 5..	527	618	$414 00	$331 50	23	10	19	1145	$745 50
" " 12..	554	663	414 00	318 00	23	11	20	1217	732 00
" " 19..	562	408	414 00	251 25	23	10	19	970	665 25
" " 26..	573	540	414 00	258 00	23	10	16	1113	672 00
	2216	2229	$1656 00	$1158 75	92	41	74	4445	$2814 75
Week ending Sept. 2....	560	355	$414 00	$276 00	23	10	18	915	$690 00
" " 9....	568	368	414 00	270 00	23	10	18	936	684 00
" " 16....	527	342	345 00	212 25	23	9	18	869	557 25
" " 23....	532	126	345 00	159 75	23	9	17	658	504 75
	2187	1191	$1518 00	$918 00	92	38	71	3378	$2436 00
Week ending October 1.	503	169	$345 00	$165 00	23	9	18	672	$510 00
" " 8.	503	704	414 00	372 00	23	10	18	1203	786 00
" " 15.	504	268	345 00	235 50	23	10	19	772	580 50
" " 22.	499	312	345 00	213 00	23	9	18	811	558 00
" " 29.	513	283	345 00	237 00	23	9	18	796	582 00
	2522	1736	$1994 00	$1222 50	115	47	91	4258	$3016 50

TABLE A—Concluded.

SIXTH DISTRICT. — HENRY LANCASTER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending Nov. 4.....	513	117	$345 00	$135 00	23	9	17	630	$480 00
" " 11.....	546	245	345 00	231 00	23	9	15	791	576 00
" " 18.....	564	277	345 00	210 75	23	9	16	841	555 75
" " 25.....	480	171	345 00	179 25	23	9	16	751	524 25
	2203	810	$1380 00	$756 00	92	36	64	3013	$2136 00
Week ending Dec. 2.....	649	81	$345 00	$109 50	23	9	16	730	$454 50
" " 9.....	690	54	345 00	102 00	23	9	16	744	447 00
" " 16.....	647	12	327 00	42 00	23	2	10	659	369 00
" " 23.....	677	14	345 00	40 50	23	2	10	691	385 50
" " 30.....	237	.....	120 00	6 00	8	...	2	237	126 00
	2900	161	$1482 00	$300 00	100	22	54	3061	$1782 00

JAMES F. McSHANE, M. D., *Assistant Commissioner of Health.*

TABLE B.

Monthly Reports of work done in the Street and Garbage Department for each month, from January 1 to December 31, 1881, inclusive.

	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Month ending Jan. 31	13,978	47,830	$7,917 00	$13,584 01	104	89	187	61,781	$21,501 01
" " Feb. 28	13,449	26,393	7,632 00	7,128 43	106	52	93	39,842	14,760 43
" " Mar. 31	14,571	16,674	8,574 00	8,002 35	106	58	98	31,245	16,576 35
" " Apr. 30	14,756	17,811	7,722 00	8,181 00	107	79	99	32,557	16,965 00
" " May 31	12,963	16,145	7,968 00	8,386 95	117	64	90	29,108	16,108 95
" " Jun. 30	12,283	17,720	8,943 00	8,590 63	116	65	106	30,003	16,556 63
" " July 31	12,079	17,641	8,784 00	8,832 37	112	58	120	29,720	17,775 37
" " Aug. 31	12,484	18,082	9,172 50	8,639 25	114	59	120	35,066	17,811 75
" " Sept. 30	11,546	10,657	7,863 00	5,447 25	114	52	100	22,203	13,310 25
" " Oct. 31	11,415	13,430	7,470 00	6,445 00	114	52	91	24,845	13,915 00
" " Nov. 30	11,719	9,883	7,281 00	5,235 00	108	46	81	21,602	12,516 00
" " Dec. 31	13,492	2,808	7,011 00	1,798 00	106	27	46	16,300	8,809 00
	154,725	215,047	$96,337 50	$90,270 24				369,772	$186,607 74

Total amount paid for collecting and removing garbage and ashes	$96,337 50
Total amount paid for collecting and removing street dirt, sand, ice, &c.	90,270 24
Total amount paid for dumps	3,893 50
Total amount paid for tools, &c.	1,492 86
	$191,994 10
Deficiency for 1880	$1,279 41
Amount of appropriation for Street and Garbage Department for 1881	$193,279 41
Amount of appropriation expended	193,273 51
Balance	$5 90

Average cost per load for the removal of garbage, ashes, street dirt, sand, ice, snow, &c., 51⅞ cents.

Amount received for refuse	$2,073 41

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

TABLE C.

Special Appropriation for Cleaning Streets, as per Resolution No. 6, approved January 29, 1881.

DISTRICTS.	Street Dirt Sand, &c., Removed	Cost of Removal of Street Dirt, Sand, &c.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
FIRST DISTRICT—B. V. KELLY.						
Week ending February 5	1300	$416 25	10	41	1300	$416 25
" " 12	1830	566 25	11	43	1830	566 25
" " 19	2061	696 75	12	56	2061	696 75
" " 26	2160	414 00	12	31	2160	414 00
	7351	$2093 25	45	171	7351	$2093 25
SECOND DISTRICT—JOSEPH P. SCOTT.						
Week ending February 7	1433	$399 00	8	29	1433	$399 00
" " 14	1410	378 75	8	30	1410	378 75
" " 21	1000	389 25	8	29	1000	389 25
" " 28	540	219 75	6	13	540	219 75
	4383	$1386 75	30	101	4383	$1386 75

THIRD DISTRICT—MICHAEL FADGEN.							
Week ending February 2	760	$344 25	8	26	760	$344 25
" " 9	1010	453 00	12	32	1010	453 00
" " 16	1115	486 75	13	35	1115	486 75
" " 23	1045	485 25	11	33	1045	485 25
" " March 2	330	171 75	4	13	330	171 75
	4260	$1941 00	48	139	4260	$1941 00
FOURTH DISTRICT—LOUIS KROEGER.							
Week ending February 3	773	$451 50	15	31	773	$451 50
" " 10	993	598 50	19	40	993	598 50
" " 17	1169	602 10	19	46	1169	602 10
" " 24	1212	650 45	20	47	1212	650 45
	4147	$2302 55	73	164	4147	$2302 55
FIFTH DISTRICT—JOHN MEAGHER.							
Week ending February 4	1960	$444 00	16	38	1960	$440 00
" " 11	1712	480 00	13	40	1712	480 00
" " 18	1815	418 50	15	46	1815	418 50
" " 25	1011	279 00	12	27	1011	279 00
	6498	$1621 50	56	151	6498	$1621 50

TABLE C—Concluded.

February 28, 1881, expenditures for tools, &c.	$ 652 60
Total expenditures for work	9,345 05
	$9,997 65
Amount of special appropriation	$10,000 00
Amount expended	9,997 65
Balance	$2 35

Total amount of loads removed, 26,639, at an average cost per load of 37½ cents.

JAMES F. McSHANE, M.D.,
Assistant Commissioner of Health.

TABLE D.

Table showing amount of Animal and Vegetable Garbage delivered to Contractors at Canton.

MONTHS.	CANTON DUMP.	GARBAGE.	MARKETS.	TOTAL.
January.....	J. Holdefer, Sup't....	386¾	98	484¾
February	" "	333	82	415
March.	" " . .	389¼	83	472¼
April	" "	540¾	80	620¾
May.....	" " . .	716¾	96	812¾
June.....	" "	963¾	138	1,101¾
July.....	" "	1,366¾	191	1,557¾
August.....	" "	1,517¾	156	1,673¾
September...	" "	1,364¾	152	1,516¾
October.....	" " . ..	1,052½	144	1,196½
November.....	" "	581¼	75	656¼
December.....	" "	561¼	72	633¼
		9,774½	1,367	11,141½

TABLE D—Concluded.

Table showing amount of Animal and Vegetable Garbage delivered to Contractors at Spring Garden.

MONTHS.	SPRING GARDEN DUMP.		GARBAGE.	MARKETS.	TOTAL.
January	E. Pumphrey,	Sup't.	338¼	57	395¼
February	"	"	287½	61	348½
March	"	"	365¼	30	395¼
April	"	"	529½	33	562½
May	"	"	917	78	995
June	"	"	1,378¼	117	1,495¼
July	"	"	1,967½	144	2,111½
August	"	"	2,198	166	2,364
September	"	"	2,298½	181	2,479½
October	"	"	1,491¾	162	1,653¾
November	"	"	649	68	717
December	"	"	555¾	51	606¾
			12,976¼	1,148	14,124¼

Total number of loads delivered at Canton and Spring Garden dumps, 25,265¾; average cost per load for removal under the contract price, 53⅜ cents.

JAMES F. McSHANE, M. D.,
Assistant Commissioner of Health.

TABLE E.

Number of Nuisances examined and abated by Sanitary Inspectors (1881.)

Alleys graded, paved and repaired	353
Premises cleaned and disinfected	244
Cellars cleaned and connected with sewers	495
Floors of houses, privies and stables repaired or relaid	39
Vacant lots filled or drained	125
Manure pits reconstructed or repaired	105
Privies reconstructed or repaired	1,019
Ponds drained or filled	57
Drain pipes constructed and repaired	58
Yards drained, paved, cleaned and repaired	310
Ice ponds inspected and permits granted	28
" " " refused	2
Causes of death investigated, (no physician in attendance)	369
Complaints examined and no nuisance found to exist	157
Notices served on wood and coal dealers	339
Gas and water pipes repaired	32
Gutters repaired and repaved	50
Water obtained from city pumps for analysis	12
Slaughter and packing-houses inspected	33
Rain-spouts repaired	45
Grass removed from gutters	67
Amount carried forward	3,939

TABLE E—Concluded.

Amount brought forward	3,939
Excavating establishments inspected	6
Buildings reconstructed	5
Cases of infectious disease inspected	317
Beds and bedding destroyed	99
Public schools inspected	27
Stables inspected	12
Permits granted for charcoal wells	20
Hydrants repaired	18
Guano factory inspected	1
Alleys (private) cleaned	20
Destitute families visited	4
Persons sent to the Quarantine Hospital	74
Miscellaneous inspections	398
Total number of inspections	4,940

JAMES F. McSHANE,
Assistant Commissioner of Health.

TABLE F.

Notices, Orders, &c., issued from the Health Department, and number of Official Letters Written and Received during the year 1881.

Notices issued to clean privies on complaint	14,641
" " repair yards	480
" " clean and bail out cellars	493
" " grade and pave alleys	3,981
" " drain and fill up lots	301
" " clean and repair water closets	567
" " clean, drain and repair premises	298
" " clean and properly construct manure pits	160
" " clean grass and weeds from lots and gutters	487
Total number of notices issued	21,408
Number of permits issued to open sinks	18,750
" " " " at night.	51
" official letters written	432
" " received	805

TABLE G.

Number of Interments in the Eastern and Western Public Cemeteries during the year 1881.

EASTERN PUBLIC CEMETERY. *P. Mullen, Sup't.*		WESTERN PUBLIC CEMETERY *F. A. Kerchner, Sup't.*	
January	15	January	26
February	15	February	26
March	19	March	16
April	17	April	17
May	17	May	14
June	21	June	11
July	18	July	20
August	18	August	23
September	11	September	7
October	10	October	15
November	11	November	14
December	11	December	15
	183		204
			183
Total number of interments during the year 1881			387

JAMES F. McSHANE, M. D.,
Assistant Commissioner of Health.

REPORT

OF THE

RESIDENT PHYSICIAN

AT THE

QUARANTINE HOSPITAL.

REPORT.

QUARANTINE HOSPITAL—PORT OF BALTIMORE,

Baltimore, December 31, 1881.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I have the honor to submit the report of this hospital, for the year ending December 31, 1881.

I would respectfully call your attention to the fact that the improvements at this place are rapidly falling into decay, and are in such a condition as to be a reproach to the city.

For the past six years or more there has been no appropriation for repairs, and the annual appropriation has been barely sufficient (with severe economy) for current expenses, and has scarcely considered the contingency of sickness, with its increased demands.

Nearly two years ago the National Board of Health protested that our Quarantine Station was too near, and full of danger to the city, and threatened to establish a National Quarantine at the mouth of the bay, at which all suspected vessels should be stopped.

As such a course would be the cause of much delay and expense to such vessels, and injury to the commerce of the port, the city authorities, after examination into the subject, and conference with the National Board of Health, agreed that a removal from our present location to the property owned by the city, at Leading Point, would satisfy all objections.

The fact that the quarantine anchorage has been made a common anchorage for outgoing and incoming vessels, makes the removal more imperative, as I have seen infected and uninfected vessels in very dangerous proximity during the past season.

At present, Leading Point is a dense pine thicket, and the first step towards its improvement should be the clearing up of the ground, and the proper location of a suitable wharf, after which the improvements can be more intelligently situated. It remains with your Honorable Body whether to make an appropriation for such purpose; it is certainly my duty to recommend it.

The removal of the Quarantine Station to Leading Point, will, I think, necessarily separate the Quarantine from the Pest Hospital service, and in such event, I would suggest the retention of part of this property for a Pest Hospital, and to sell or retain the valuable water-front, as may be deemed best for the interests of the city; but, thus far, the unfulfilled intention of removal has been of injury to this service, as it has afforded a seeming fair but mistaken pretext to deny proper appropriations for repairs at this place.

During the year, 963 vessels have been boarded and inspected on their arrival at port. The details will be shown in the accompanying tables.

Table I shows the number and class of vessels examined.

Table II shows the amount of money collected and paid into the city treasury, $8,931.74.

Table III shows the number and class of vessels detained at quarantine, forty-four in all.

Table IV shows the number of patients treated at the hospital or quarantined, as having been in contact with contagious disease. There were ninety persons received during the past year; of these, fifty-one were cases of Small-pox, one of Yellow fever, three of Typhoid fever, twelve of Measles, one of Bronchitis, six of Malarial fever, and sixteen were quarantined because of their being members of infected families or households.

The cost of maintaining the Quarantine Station and hospital during the year was $15,494.24, as more fully shown in Table No. 8 of the Health Commissioner's report. The appropriation for this hospital was $14,000, to which a special permission was added by the late Council, to use $1,500 of the receipts of collections, making an appropriation of, say, $15,500 for the past year. You will perceive that there is a deficiency of $466.67. In compliance with Ordinance No. 29, approved May 2, 1877, I would respectfully give the following reasons for this deficiency:

1. The unusual amount of sickness we have had during the past year.

2. The fact that we have to furnish our convalescent Small-pox and quarantined patients with clothing.

3. We have had to pay the December bills of 1880.

4. We have forty or fifty tons of coal on hand, purchased because we did not want to be caught with a frozen harbor, which would have increased, as several times before, the cost of transportation.

With the concurrence of his Honor the Mayor, it has been determined to make some necessary repairs to the north wing of the main building, this will be done early in January, 1882, and is much needed.

During the past year the Quarantine service has suffered the loss of Dr. E. Lloyd Howard, a man of ripe judgment and rich experience. His loss is severely felt.

I am indebted to Dr. John A. Robb, for his intelligent and cheerful assistance during the latter part of the quarantine season; and Captain John L. Gibson and the other employees, deserve my thanks for the ready zeal with which they have performed their duties.

Very respectfully,

Your obedient servant,

J. McH. HOWARD,

Quarantine Hospital Physician.

TABLES.

TABLE I.

Showing the Number and Class of Vessels Boarded and Inspected at the Quarantine Station, for the year ending December 31, 1881.

Months.	CLASS OF VESSELS.					
	Steamships.	Ships.	Brigs.	Barks.	Schooners.	Total.
January	5	.....	.....	.....	.....	5
February	4	.....	.....	1	.....	5
March	5	.....	1	.....	.....	6
April	8	.....	.....	.....	1	9
May	39	12	9	84	37	181
June	36	7	9	65	59	176
July	46	8	6	50	44	154
August	63	5	12	53	36	169
September	49	6	12	47	24	138
October	30	4	8	34	25	101
November	5	.....	3	1	.....	9
December	5	.....	4	1	.....	10
Total	295	42	64	336	226	963

TABLE II.

Showing the amount of money received for Quarantine Fees, also money received from other sources and paid to the City Register, for the year ending December 31, 1881.

Months.	CLASS OF VESSELS.							
	Ste'mships	Ships.	Brigs.	Barks.	Schooners.	Total.	Cash Collect'd from Pat'nts, &c	Total Collect'ns.
January	$125 91	.....	.....	.....	.....	$125 91	.....	$125 91
February	108 93	.....	.....	$4 18	.....	113 11	.....	113 11
March	139 37	.....	$2 14	.....	.....	141 51	.....	141 51
April	218 76	.....	.....	.....	$2 00	220 76	.....	220 76
May	682 17	$136 18	28 45	524 93	96 68	1,468 41	.....	1,468 41
June	644 08	79 95	24 94	414 41	161 19	1,324 57	.....	1,324 57
July	812 92	92 15	18 15	325 23	120 91	1,369 36	.....	1,369 36
August	1,116 22	57 29	38 93	306 84	108 45	1,627 73	.....	1,627 73
September	833 18	68 81	37 60	291 19	61 67	1,292 45	2 60	1,295 05
October	539 85	37 41	25 85	220 87	76 10	900 08	33 49	933 57
November	142 35	.....	6 42	5 49	.....	154 26	.....	154 26
December	126 11	.....	11 18	5 21	.....	142 50	15 00	157 50
Total	$5,489 85	$471 79	$193 66	$2,098 35	$627 00	$8,880 65	$51 09	$8,931 74

TABLE III.

Showing the Number and Class of Vessels detained at Quarantine, for Cleansing and Disinfecting, for the year ending December 31, 1881.

Months.	CLASS OF VESSELS.					
	Steamships.	Ships.	Brigs.	Barks.	Schooners.	Total.
January						
February						
March						
April						
May						
June						
July	4		2	3	2	11
August	6		3		2	11
September	6		5	3	5	19
October	2				1	3
November						
December						
	18		10	6	10	44

TABLE IV.

Showing the Number of Patients treated for the year ending December 31, 1881.

Diseases.	Remaining from 1880.	Received.	Discharged.	Died.	Absconded.	Remaining in Hospital.	Total.
Small Pox	.....	51	21	13	1	16	51
Yellow Fever	.....	1	.....	1	.....	....	1
Typhoid Fever	.....	3	2	1	.....	...	3
Measles	.....	12	12	.....	.....	.....	12
Bronchitis	.....	1	1	.....	.....	.....	1
Malarial Fever	.....	6	6	.....	.....	.....	6
Quarantined	.....	16	13	.....	.....	3	16
Total		90	53	15	1	19	90

ANNUAL REPORT

OF THE

BOARD OF VISITORS

OF THE

JAIL OF BALTIMORE CITY,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881.

OFFICERS OF THE BALTIMORE CITY JAIL, 1881.

Board of Visitors.

OTIS KEILHOLTZ, *President.*
THOMAS G. HAYES,
HARRY E. REINHARD,
JACOB FRANCE, Sr.,
J. H. SIRICH,
SAMUEL J. HARMAN,

J. F. MORRISON, *Warden.*
Dr. D. P. HOFFMAN, *Physician*
WM. H. H TURNER, *Clerk.*

Deputy Wardens.

CHARLES CARROLL
HENRY CRUSE,
WILLIAM H. CROSS,
EDWARD C. BOWERS,
JOHN RIELLY,
WM. H. TIBBELS,
JOHN F. CARTER,
WILLIAM HOWARD,
JOSEPH J. PETERS,
ANDREW J. NORRIS,
THOMAS M. KENNY,
JAMES J. FLANNERY,
PETER P. KESTLER,
P. J. FLANNERY,
WM. J. McCLEARY,
CHAS F. EDWARDS,
JNO T. BARBER.

JAMES B. SANNER, *Engineer.*
CHARLES W. MUHLY, *Baker*
LOUDON FEAST, *Gardener.*
Mrs. CARRIE DOLL, *Matron.*
Mrs. SOPHIA A. CROSS, *Assistant Matron.*
A. J. CONNELLY, *Hostler.*

REPORT.

Baltimore, January 2, 1882.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

The Visitors of the Jail of Baltimore city respectfully submit to your Honorable Body the following report of the operations of the institution entrusted to their management, during the year ending December 31, 1881.

The report of the Warden, and accompanying exhibits, embraces a summary of receipts and disbursements; a statement of the number of prisoners committed to the institution during the year, specifying the offences with which they were charged, and the manner in which they were disposed of. The report of this officer contains many valuable suggestions, which are deserving of the prompt attention of the corporate authorities. We fully endorse the recommendations made by him, and commend the same to your consideration.

There was expended by the Board during the year the sum of $55,713.64. A larger sum will be necessary

for the maintenance of the institution during the coming year, to wit: $57,450, owing to the increased cost of all articles required for providing for the inmates and for indispensable repairs. The appropriation asked for is necessary for the proper management of the affairs of the jail. In addition to the amount requisite for defraying current expenses, the Board would also ask for a special appropriation of $39,600.

The sum of $15,000 was appropriated last year for supplying new heating apparatus. Of this sum, only $465.48 was expended for plans, &c. It was ascertained that the sum appropriated was insufficient to accomplish the object in view, and the balance of the money was covered back into the city treasury. It is estimated that the cost of proper heating apparatus and repairs to out-buildings will require at least $25,000. The paving of the yard and roadway, which is an urgent necessity, will require $7,000; repairs to the laundry, supplying washing machinery, and repairing walls and sewers, will absorb the balance of the amount asked for.

The carrying into effect the provisions of the law for the employment of the inmates of the institution is a matter for your consideration. The shops now used were never intended for such purpose, and the limited number of persons employed is owing to the want of necessary accommodations. Additional facilities would largely increase the revenues of the institution; promote the welfare of the prisoners, and assist in the enforcement of discipline.

The especial attention of your Honorable Body is called to the suggestions contained in the report of the

Warden, in relation to providing suitable accommodations for the confinement of witnesses, and the separation of minors from association with adult prisoners. As the prison is at present arranged, persons who are confined for no other reason than that they happened to be involuntary observers of breaches of the law, and being unable to enter into recognizance to appear as witnesses at the trial of the offenders, are consigned to the custody of the Warden for safe-keeping, until the time arrives for their attendance in Court. It often happens that some of those so committed are compelled to remain a long time in confinement, and are subjected to the operation of the rigid rules of the prison, which are enforced against those who are undergoing incarceration as a punishment for crime. Common justice and humanity require that when the necessity exists for depriving such persons of their liberty, that suitable provision should be made to render their condition comfortable and free from the evil consequences of prison life. A suitable department for the confinement of such persons, where they will not be required to associate with convicts and felons, should be provided, and the necessity for supplying such accommodations is strongly impressed upon the attention of your Honorable Body. The reasons are equally urgent for the separation of minors from association with adult offenders.

The sanitary condition of the prison has been all that could be desired. The rules adopted by the Board, in relation to cleanliness and ventilation, have been fully observed. The enforcement of these rules, and the

attention given by the physician to promote the health of the inmates, is seen in the good results which are manifest in the small number of cases of sickness during the year.

Every facility has been afforded by the Board to the efforts which have been made to promote the religious welfare of the prisoners. The Prisoners' Aid Society, of which Rev. J. B. Shontz is the agent, has accomplished great good among them. Mr. Shontz is almost constantly engaged in labors in their behalf. The influence of the Aid Society in behalf of the fallen and the guilty, is very great, in ameliorating the condition of the unfortunate classes upon which its labors are expended.

The matter of issuing passes to persons desiring access to the Jail, for the purpose of seeing prisoners confined therein, was made the subject of controversy during the year. The Board, in passing on this question, were guided by the opinions of the City Solicitor, and has acted in accordance with his exposition of the law in that behalf.

The Board take great pleasure in expressing their commendation of the services which have been performed by J. F. Morrison, the Warden, under whose superintendence the affairs of the prison have been most satisfactorily conducted. His excellent executive ability is all that could be required in the management of the Institution. Since he has been in charge, many valuable features have been incorporated in the discipline of the Jail and the general management of its affairs, which cannot be too highly appreciated.

The physician, Dr. Hoffman, has been untiring in the performance of the duties devolved on him; and the other officers have all rendered their services in an acceptable manner.

In concluding their report, the Board would suggest that it would be false economy on the part of the corporate authorities to defer action in reference to consummating the repairs to the building which are recommended by the Warden, as further delay will only increase the ultimate expenses which must be incurred for that purpose. The new wing is shown to be an urgent necessity. It is demanded by public opinion, and the subject has been adverted to in the report of the Grand Jury to the Criminal Court. It is to be regretted that to carry out these recommendations will entail a large expenditure of money; but, unless the means therefor be provided by your Honorable Body, the Board is powerless in the premises. They can only impress the importance of these matters upon your attention, and lnvolve the responsibility upon you. Should the means be provided, and the improvements recommended consummated, we can, with just pride, refer to our Institution as a model of its class in this community.

Respectfully submitted,

OTIS KEILHOLTZ,
HARRY E. REINHARD,
JACOB FRANCE, Sr.
THOMAS G. HAYES,
J. A. SIRICH,
SAMUEL J. HARMAN.

REPORT OF THE WARDEN.

REPORT.

Baltimore, January 2, 1882.

To the Honorable the Board of
Visitors of the Jail of Baltimore City:

GENTLEMEN:

I beg to submit herewith my annual report of the operations of the Jail of Baltimore City for the fiscal year ending December 31, 1881.

The total number of prisoners committed during the year was 8,654, showing a daily average of $331\frac{7}{12}$. Of this number there was committed for minor offences, or what are generally termed "peace cases," 5,422, showing an increase in this class of prisoners, as compared with last year, of 693.

The total earnings of the Baltimore City Jail for the year ending December 31st, 1881, was $3,093 55

The appropriation by the Mayor and City Council for the maintainance of the Prison for the fiscal year ending December 31st, 1881, was $55,713 64

Of this sum there was expended for repairs to prison, outbuildings, sewers, &c	$ 8,816 11
For disinfectants, tin, iron, lumber and various other articles necessary for the proper conducting of the prison	6,687 74
For Fuel	3,281 45
For private subsistence, hospital stores, gratuities to released prisoners, &c	2,597 78
For general subsistence for prisoners	14,550 39
For salaries of officers	19,780 17
Total expenditures	$55,713 64

Included in the above amount are the bills for December, 1880 and 1881, making thirteen months' bills paid out of the appropriation for the support of the Jail for the fiscal year ending December 31st, 1881, thus doing away with the custom of carrying over the bills for December to the next year.

A special appropriation was made by the Mayor and City Council, for new heating apparatus, of $15,500.00, of which there was expended for plans, advertising, &c., $465.48.

After receiving bids for the work, it was found that the amount appropriated was not sufficient for the purpose, and it was covered back into the City Treasury.

There is but one contract for prison labor now in operation, viz: with Messrs. G. S. Griffith & Co., for the weaving of carpets. The number of prisoners employed in the carpet shop is fifty; more would be employed if there was sufficient room, but the building is now overcrowded.

I beg to submit the following report of the estimated value of goods on hand, utensils, tools, and stock in the several departments of the Institution:

Subsistence department	$1,350 35
Engineer's department, including blacksmith shop, tin shop, carpenter shop, store-room, boiler-room, furnace equipments	2,089 50
Furniture in use in sections 1, 2, 3 and 4	4,411 20
Gardener's department	1,646 85
Small store-room	300 00
Armory	500 00
Furniture in Board and guard rooms	650 00
Matron's store-room, laundry, &c	226 70
Apothecary shop	100 00
Sanitary department	76 50
Carriages, carts, &c	800 00
Three horses, $800.00; two pigs, $25.00	825 00
Clerk's office	250 00
	$13,226 10
Add value of prison, outbuildings and grounds	353,826 15
Total value of city property in charge of Board of Visitors	$367,052 25

The health of the prisoners during the past year has been excellent. The daily reports of the physician

show that there was treated, during the year, 1904 cases of various diseases. Of this number, but five deaths have occurred. This result may be attributed to the skill and untiring energy and devotion of Dr. D. P. Hoffman to the physical condition of the prisoners.

Religious exercises have been conducted during the past year by leading members of the different denominations. Both Catholic and Protestant Sunday-schools are held every Sunday in the chapel of the prison; the former under the charge of Mr. Henry M. Tiralla, and the latter by the Rev. J. B. Shontz. Mr. Shontz, agent of the Prisoners' Aid Association, devotes almost his entire time to the inmates of the prison, and deserves great credit for his unselfish efforts in their behalf.

The condition of the prison, in spite of the almost constant repairs which have been going on for the past year, is far from satisfactory. The recommendations made in my last annual report have none of them been carried out, owing to an insufficient appropriation by the Mayor and City Council. If this matter be allowed to go on for a few years longer, you will have, in addition to the evils arising from an unhealthy and dangerous building, the absolute necessity thrust upon you of almost an entire reconstruction of the prison edifice.

In the original construction of the walls, the materials used were of a very inferior quality, which has gradually crumbled away, leaving crevices through which, during heavy storms, the dampness strikes, making the interior unhealthy and uncomfortable. The masonry in the tower-walls is in a very weak condi-

tion ; in some places the cement has entirely disappeared from between the stones.

We have, at a considerable expense, for renewal of furnaces, boilers, grating and steam-heating pipes, throughout the prison, been able to tide over the cold season so far, aided, however, by an exceedingly mild November and December. This expenditure, however, has only produced temporary repairs. No permanent relief can be expected from anything short of an entire renewal of the heating apparatus. This renewal, if based upon proper principles, would save in fuel all its cost in a few years. A new heating apparatus would now be in operation, had it not been for reasons heretofore set forth in this report.

I hereby renew my recommendations that application be made to the Mayor and City Council for an appropriation of a sufficient amount to defray the expenses of this much needed improvement, together with sufficient steam power to facilitate the manufacturing industries of the jail. In addition to this, I beg to renew the recommendations made in my last annual report for permanent and necessary repairs.

The workshops are ill-lighted, badly ventilated, and entirely too small for the purpose for which they are used. The dormer-windows which were placed in the roof of the main prison nine years ago, for the purpose of light and ventilation, have never been protected by iron grating, while the ropes used to open and close them, which are worked from the galleries of the top tiers, invite the escape of agile prisoners.

The heavy wooden doors of the sink or tower-rooms, while they offer little security to the prison, make first-rate hiding-places for prisoners, while engaged in endeavors to escape. These rooms should have grated doors, the same as those upon the cells.

The back yard during rainy weather is simply a mud-hole, and will so continue until some kind of pavement has been laid on the roadway and other parts of the jail yard.

The south wall, from the Penitentiary to the Warden's residence, is too low to be of any service in the detention of prisoners, as is also the north wall, from the Penitentiary to the laundry. At these two points nearly all the escapes have been made which have taken place in past years.

The roof and walls of the laundry leak so, that work has to be suspended in that department during wet weather. The work in the laundry has been so largely increased by our efforts to maintain cleanliness among the prisoners, that more room and better facilities are required by the matron for the proper carrying on of work of this character.

I beg to submit for your consideration the following estimate of the probable cost for the maintenance of Baltimore City Jail for the next fiscal year:

For salaries	$22,400 00
General subsistence	16,000 00
Fuel	5,000 00
Amount carried forward	$43,400 00

Amount brought forward	$43,400 00
Incidental expenses, including clothing, blankets, shoes, paints, lime, kalsomine, disinfectant, brushes, brooms, mops, coal oil, gas tar, benzine, tin and iron for prison utensils and ordinary repairs	10,000 00
Private subsistence, hospital stores, &c	2,500 00
Gas	1,500 00
Total	$57,400 00

For repairs to out-buildings and heating apparatus	$25,000 00
Paving yard and roadway	7,000 00
Repairs to laundry, supplying washing machinery, &c	5,000 00
Repairing walls	1,800 00
Repairing sewers	800 00
Total	$39,600 00

I desire to call your attention to the lack of provision made for persons confined as witnesses; also, for minors.

Witnesses are, for prudential reasons, assigned to quarters on section two, which part of the prison is devoted entirely to prisoners undergoing sentence. Witnesses, therefore, come under the rigid rules made necessary for the government of sentenced prisoners, and are also compelled to associate with convicts and felons of various grades of crime, for whatever length of time may be necessary to bring the person charged with the offence, for which they are held as witnesses, to trial. This not unfrequently brings upon these

unfortunate people practically an imprisonment of days, weeks, and sometimes months, as the case may be, when the only crime with which they stand charged is, having been a witness to some breach of the law. Some provision should be made, other than the present facilities of the jail afford, for this class. In other cities, a house of detention is set apart for this purpose, where persons, while being held as witnesses, are not necessarily compelled to associate with convicts and felons.

I desire yet more forcibly than ever in this case to call to your attention the necessity for further prison accommodations for minors, who are committed to the prison and confined in section one, charged with various offences against the law. As the prison is now arranged, these lads—mere children, many of them, and charged with slight offences—are committed to the same section as male adults, with no possibility of preventing communication between them. These youths, thus brought in contact for days and weeks with old offenders and hardened criminals, go forth from the prison bereft of what little sense of honesty they might have brought in with them, tainted with the thoughts and teachings of the criminals with whom they have been brought in contact, lost to self-respect and without feeling of shame, and all this because, for want of room, no provision has or can be made in Baltimore City Jail to separate different classes of prisoners.

Referring to the second paragraph in this report, you will find that out of the total number of prisoners committed during the year (8,654)—5,422 were of the class

known as "bummers" or "peace cases"—that is, persons charged with drunkenness or other minor breaches of the peace. Section four of the prison, to which this class is assigned, contains, as do each of the other three sections, only seventy-five cells. It has not unfrequently occurred that from three hundred to four hundred persons have been confined in this section at one time. There are at all times persons confined in some of the cells of this section ill from mania-portu and other diseases incidental to their debauched life, which compels the crowding of the remaining cells to a greater extent than decency or humanity should subject even these degraded creatures to. It has frequently occurred that for lack of room, we have been compelled to place six or more persons in a cell originally intended for two.

I beg that your Honorable Board will so represent to the Mayor and City Council, that this reproach to the intelligence and decency of the city of Baltimore will be removed.

I beg respectfully to suggest the following remedy: that a wing be built to the east side of the Jail; a portion of which shall be used as a house of detention for witnesses; a portion for minors committed for various causes, and a portion for female prisoners; you will then have ample accommodations in sections one and two for sentenced prisoners, assigning to each a separate cell. You will have sections three and four for the "bummers" or "peace cases," and remove the female prisoners to such position as will render communication, in any way, with male prisoners, entirely impossible.

I cannot too strongly impress you with the importance of this change; it involves the health of the prisoners, the discipline of the prison, and the claims of humanity and common decency.

I submit for your consideration the following statements:

Exhibit A, showing the receipts and expenditures for the year.

Exhibit B, showing the monthly average of prisoners for the year, and the daily average for the years 1878, 1879, 1880 and 1881.

Exhibit C, showing the number of prisoners committed for various causes.

Exhibit D, showing the number of prisoners committed, and how discharged.

I beg to call to your notice the excellent services rendered by the Matron and Assistant Matron of the prison. The good judgment displayed by them in the discharge of their official duties, entitle them to praise and commendation.

In closing this report, I beg to commend the Clerk and Deputy Wardens for the assistance which they have rendered in conducting the Institution during the past year.

Respectfully submitted,

J. F. Morrison, *Warden.*

TABLES.

EXHIBIT A,

Dr. *Being a Summary of Receipts and Expendi*

1881.			
Dec. 31—To officers' salaries, physician, gardener and baker		$19,780	17
To subsistence of prisoners		14,550	39
To subsistence of Warden's family, hospital, &c		2,597	78
To fuel		3,281	45
To Expense Account, (including dry goods, shoes and clothing for sentenced prisoners, &c		5,511	68
To Gas		1,126	06
To printing reports, &c		50	00
To repairs, including repairs to prison outbuildings, sewers, cell locks, painting, kalsomining, &c.		8,816	11
To amount paid to Comptroller, received from various sources		3,093	55
		$58,807	19

EXHIBIT A.

tures for the year ending December 31, 1881. CR.

1881.			
Dec. 31—By United States Docket	$	679	00
By City Docket		545	30
By Labor Account, Griffith & Co		1,296	65
By Labor Account, Beebe & Co		572	60
By Mayor and City Council		55,713	64
	$58,807	19	

Respectfully submitted,

J. F. MORRISON,
Warden.

EXHIBIT B.

Showing the Monthly or Daily Average of Prisoners from January 1 to December 31, 1881.

1881.	
January	378
February	380
March	376
April	367
May	315
June	274
July	267
August	304
September	310
October	333
November	324
December	351
	3979

Daily average for 1881	331 7–12
Daily average for 1880	329 11–12
Daily average for 1879	332 10–12
Daily average for 1878	392 8–12

EXHIBIT C.

Showing number of Prisoners committed for various causes during the year ending December 31, 1881.

CHARGES.	WHITE.		Total White.	COLORED.		Total Color'd	Grand Total.
	Men.	Women.		Men.	Women.		
Peace and drunkenness	3467	630	4097	875	450	1325	5,422
Larceny	544	65	609	318	109	427	1,036
Assault and battery, including violations of ordinances, &c., for action of Criminal Court	615	70	685	402	77	479	1,164
Vagrancy	112	23	135	28	19	47	182
Assault with intent to kill	50	2	52	34	4	38	90
Obtaining goods under false pretences	31	1	32	20	2	22	54
Destroying property	4	.....	4	2	1	3	7
Indecent assault	9	.....	9	2	.....	2	11
Embezzling	13	1	14	5	.....	5	19
Felony	7	.....	7	4	.....	4	11
Forgery	4	.....	4	2	.....	2	6
Burglary	17	.....	17	26	1	27	44
Deserting seamen	38	.....	38	15	.....	15	53
Peddling without license	4	.....	4	2	.....	2	6

EXHIBIT C—Concluded.

CHARGES.	WHITE.		Total White.	COLORED.		Total Color'd	Grand Total.
	Men.	Women.		Men.	Women.		
Receiving stolen goods	5	1	6	7	3	10	16
Arson	2		2				2
Defrauding	3		3	1		1	4
Witnesses for State and United States	47	3	50	25	10	35	85
Common thief, &c	15		15	11		11	26
Robbing Post-office	3		3	1		1	4
Perjury	2		2	3		3	5
Refusing duty on shipboard	23		23	20		20	43
Selling liquor on Sundays, &c	9		9	4		4	13
Picking pockets	12		12	13		13	25
Contempt of Courts, magistrates, &c	3		3	3	2	5	8
Keeping gambling house, &c	4		4	8		8	12
Disorderly house, &c	2		2	5	6	11	13
Enticing to prostitution		2	2		5	5	7
Fugitive from justice	1		1				1
Murder	9		9	6		6	15
Passing counterfeit money	5		5	2		2	7

Violating internal revenue laws	3		3	1		1	4
Writing policies	2		2	3		3	5
Leading disorderly life		2	2				2
Rape and attempt	4		4		2	2	6
Smuggling	4		4				4
Sodomy	1		1	1		1	2
Abortion	4		4	1		1	5
Bastardy	3		3				3
Conspiracy	6		6				6
Voting illegally, &c	3		3	2		2	5
Bigamy	2		2	1		1	3
House of Correction	70	27	97	41	21	62	159
Colored boys for House of Reformation and Instruction						59	59
							8,654

EXHIBIT D.

Showing the number of Persons Committed and how Discharged, for the year ending December 31, 1881.

Total number of prisoners committed			8,654
Sent to Maryland Penitentiary	White men	40	
	White women	3	
			43
	Colored men	34	
	Colored women	6	
			40
Sent to Bayview Asylum	White men	3	
	White women	7	
			10
	Colored men	2	
	Colored women	2	
			4
Pardoned by Governor of Maryland	White men		2
Sent to St. Mary's Industrial School for Boys	White boys		4
Sent to House of Refuge	White boys		4
Sent to Spring Grove Asylum	White	3	
	Colored women	1	
			4

EXHIBIT D—Concluded.

Sent to Maryland House of Correction	White men	70	
	White women	27	
			97
	Colored men	41	
	Colored women	21	
			62
Sent to House of Reformation and Instruction for Colored Boys			59
Removed Cases	White men		2
Died in Jail	White men	1	
	White women	1	
	Colored men	3	
			5
Discharged by courts, magistrates, expiration of sentence and otherwise.			7907
Remaining in Jail December 31, 1881			411
			8654

PHYSICIAN'S REPORT.

REPORT.

Baltimore, January 2, 1882.

To the Board of Visitors
of the Baltimore City Jail:

GENTLEMEN:

I herewith submit my report of the number and character of diseases treated in the Baltimore City Jail for the year ending December 31, 1881.

It gives me pleasure to state that the sanitary condidition of the institution is exceedingly good. No infectious or contagious diseases have visited us. Great attention and care has been paid to cleanliness, ventilation and free use of disinfectants, so necessary to prevent the propagation and spread of such diseases. Much is due to the vigilance and efficient management of the Warden.

The number of cases treated during the year were 1904; the largest proportion of which were subjects of cold, exposure, filthiness and bad living, coming to jail as a convenient hospital to recruit and recover.

I have vaccinated 513 persons—70 per cent. of whom took, having all the features and characteristics of well-developed pustules.

There were five deaths; three of whom, coming to jail in an extremely perilous condition, died in a day or two after being admitted. Of the other two, one was from suicide and the other from softening of the brain.

The tabular statements are herewith appended; the character of the diseases treated, the results, &c., &c.

I have no suggestions to make that could in any way improve the sanitary condition of the institution.

Very truly yours,

D. P. HOFFMAN, M. D.

TABLES.

Report of Cases Treated in the Baltimore City Jail, for the year ending December 31st, 1881.

Abscess	8	Incontinence of Urine.	5
Amputation	1	Insomnia	5
Boils	10	Intemperance	403
Bone Felon	6	Intermittent Fever	48
Bronchial Catarrh	68	Lumbago	5
Bubo	8	Lead Poison	2
Bruise	29	Nasal Catarrh	7
Burn	17	Nervous Debility	26
Constipation	359	Neuralgia	32
Colic, Hepatic	18	Opthalmia	5
Colic, Intestinal	41	Orchitis	20
Cutaneous Eruption	11	Organic Disease of the Heart	3
Cystites	2	Otitis	6
Diarrhœa	75	Retention of Urine	8
Delirium Tremens	18	Rheumatism	201
Dropsy	3	Scabies	2
Dysentery	12	Softening of Brain	1
Dyspepsia	24	Syphilis, Primary	23
Epilepsy	14	Syphilis, Secondary	15
Epestaxis	2	Sprain	25
Faucial Inflammation.	2	Teeth Extracted	16
Fistula	5	Tonsilitis	28
Fracture of Lower Jaw	1	Ulcer	34
Frost Bite	12	Ulcerated Throat	5
Gastric Irritation	15	Wounds, Incised	30
Gonorrhœa	26	" Lacerated	29
Hæmorrhoids	36		
Hepatic Derangement.	89		
Hernia	8	Total	1904

SUMMARY.

White Males	1,014
" Females	339
Colored Males	456
" Females	95
Total	1,904

RESULT OF TREATMENT.

Cured	1,792
Relieved	87
Died	5
Sent to Bayview	11
Under Treatment	9
Total	1,904

CAUSES OF DEATH

Hydrops Pericardii	1
Congestion of Bowels	2
Suicide	1
Softening of Brain	1
Total	5

COLOR AND SEX.

White Males	1
" Females	1
Colored Males	3
" Females	0
Total	5

ANNUAL REPORT

OF THE

COMMISSIONERS FOR OPENING STREETS

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881

REPORT.

OFFICE OF THE

COMMISSIONERS FOR OPENING STREETS—CITY HALL,

Baltimore, January 3, 1882.

To the Honorable the Mayor and
City Council of Baltimore:

GENTLEMEN:

We have the honor to submit to you a statement of the operations of this department from January 1, 1881, to December 31, 1881, inclusive.

The following list comprises the streets and alleys opened and closed during the above-stated time; also, the amount of damages, expenses and benefits, and cost to the city for each and every street, &c., as follows:

STREETS &c., OPENED DURING THE YEAR 1881.

	Damages.	Expenses.	Benefits, &c.	Amount on City.
Closing Addison alley, eight feet on the south side	$170 50	$284 60	$455 10	.....
Opening Chatsworth Run sewer	16,301 00	467 05	495 00	$16,273 05
North street, from Chase to Biddle street	6,000 00	663 74	5,776 82	886 92
Race street, from Cross street to Fort avenue	12,226 82	734 49	10,489 63	2,471 68
Alley, from Post-Office avenue to Holliday street	5,189 25	374 82	3,528 00	2,036 07
Cathedral street, from Mulberry to Saratoga street	72,300 00	1,314 40	33,528 61	40,085 79
Luzerne street, from Baltimore to Madison street	29,373 11	613 27	16,588 80	13,397 58
Patterson Park avenue, from Oliver street to North avenue	43,571 25	746 60	13,584 59	30,733 26
	$185,131 93	$5,198 97	$84,446 55	$105,884 35

ITEMS OF EXPENSE ACCOUNT.

Per diem of Commissioners and Clerk	$1,332 00
Surveyor	2,295 68
Magistrate	16 00
Stationery, &c	45 00
Auctioneer	91 77
Publishing legal notices	1,418 52
	$5,198 97

STREETS, &c, NOW IN PROCESS OF OPENING, &c.

Gold street, from Pennsylvania avenue to Madison avenue—Ordinance No. 13, approved May 20, 1879.

Covington street, from Fort avenue to Gould street—Ordinance No. 103, approved May 12, 1880.

Hoffman street, from St. Paul to North street—Ordinance No. 99, approved May 11, 1880.

Carey street, from Presstman street to North avenue—Ordinance No. 127, approved May 31, 1880.

Clement street, from Lawrence to Hull street—Ordinance No. 136, approved June 4, 1880.

Patapsco street, from Monument to Boston street—Ordinance No. 72, approved May 16, 1881.

Milliman street (closing), from Ann street to the Hebrew Hospital—Ordinance No. 114, approved October 27, 1881.

Tyson alley (closing), from Eager street to Park avenue—Ordinance No. 113, approved October 17, 1881.

Tenant street (opening), from Stricker street to the western city limits—Ordinance No. 118, approved November 1, 1881.

ORDINANCES REPEALED.

Ordinance No. 149, approved October 23, 1880—To open the court between Post-office avenue and Holliday street.

Ordinance No. 118, approved May 25, 1880—To open Scott street, from its present terminus to Ridgely street.

Ordinance No. 70, approved May 3, 1876—To open Burke street, from Baltimore to Oliver street.

Ordinance No. 71, approved May 3, 1876—To open Cannon street, from Baltimore to Oliver street.

Ordinance No. 72, approved May 3, 1876—To open Collington avenue, from Hampstead to Hoffman street.

Ordinance No. 147, approved October 24, 1876—To open Jones street, from Fort avenue to Beason street.

Ordinance No. 151, approved October 28, 1876—To open Calvert street, from Biddle to John street.

Ordinance No. 47, approved June 4, 1877—To open Rutter alley from Mosher to McMechen street.

Ordinance No. 21, approved April 20, 1878—To open Wilmer alley, from Dolphin to Lanvale street.

Ordinance No. 5, approved May 14, 1878—Closing Hanson Mill road, between North avenue and Federal street.

Ordinance No. 95, approved October 8, 1878—To open Patapsco street, from Eager street to Monument street.

Ordinance No. 35, approved April 21, 1879—Closing Lanvale road, between Maryland avenue and North street.

Ordinance No. 31, approved March 17, 1880—Closing Belvidere street, from the abutment of the bridge to the ground of the Union Railroad Company.

Ordinance No. 36, approved March 23, 1880—To open Russell street, from Ostend to Clare street.

Ordinance No. 85, approved May 4, 1880—To open Hargrove alley from Townsend street to the ground of the Baltimore City Passenger Railway Company.

Ordinance No. 135, approved June 4, 1880—To open Towson street, from Fort avenue to Beason street.

Ordinance No. 111, approved June 8, 1876—To open Marshall street, between Beverlin and West streets.

In regard to Ordinance No. 118, approved November 1, 1881, to condemn and open Tenant street, from Stricker street to the western city limits, we would call your attention to section 2, wherein it refers to the Baltimore City Code, article 43, which should have been article 47; the error, in the opinion of the City Solicitor, rendering the said ordinance non-operative. We would, therefore, ask the repeal of said ordinance.

Respectfully submitted,

JOHN B. WILLIAMS,
JAS. S. MORROW,
MATT. W. DONAVIN,
Commissioners.

ROBT. F. GREEN, *Clerk.*

ANNUAL REPORT

OF THE

GENERAL SUPERINTENDENT OF LAMPS

AND

INSPECTOR AND SEALER OF GAS METERS,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881

REPORT.

OFFICE OF GENERAL SUPERINTENDENT OF LAMPS
AND INSPECTOR AND SEALER OF GAS METERS.

Baltimore, January 2, 1882.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I have the honor herewith to submit the third annual report of this Department, showing its operations for the year ending December 31st, 1881.

As stated in the report for 1880, I was unable to obtain a report of the length and size of gas mains laid by order of the Mayor and City Council, for that year. Having secured reports regularly since that time, I enclose a statement of the whole amount laid since the contract for a supply of gas was made, in May, 1880.

I did expect a much larger quantity would be laid, and ready for use the early part of the year, but in consequence of the late cold Spring, and the difficulty of

obtaining pipe, it was quite late in the season before any large quantity was ready for the erection of lamps, hence there is quite a large unexpended balance to the credit of the gas account.

The one thousand (1000) street signs ordered by resolution of May, 1879, have been put on the lamps, but there is very great necessity to put up about 1,500 to 2,000 more, as it is impossible for strangers to find some of our streets, the names being unknown to persons living in the immediate neighbourhood; others having been changed several times. There are streets on the records of this office bearing three names, having been changed from time to time.

I would most respectfully recommend that some action be taken to finish this desirable work, and put signs on the lamps as the streets are extended or new ones opened.

I would respectfully request that eight (8) additional lamplighters be appointed, as the number of lamps have been increased in some of the streets and avenues to the city limits, thus requiring the lamplighter to walk a long distance, and occupying too much time in lighting and putting out. This causes complaint of lighting too early the first lamp that is lighted, and too late for the last, of a man's beat. The same complaint is made of the morning, in putting out the first lamp too early, and the last too late.

There is at present in use 5,346 gas lamps, and 1,028 gasoline, being an increase of 314 gas lamps, and a de-

crease of 87 gasoline since the first of the year, exclusive of parks, squares, markets, &c. There are also four (4) electric lights in Hopkins Place, (on Sharp street,) between Baltimore and Pratt streets. They seem to give satisfaction as far as I can learn, and have been constant since they were completed November 10th, without any serious interruption.

There has been much cause of complaint of not having a sufficient supply of gas in the western part of the city for several months in the early part of the evening. I have called the attention of the gas company to the matter, but as yet the difficulty has not been entirely remedied. There certainly should be a sufficient supply all over the city, or at most, only a temporary interruption.

During the past year there has been placed on the North Avenue, Baltimore, and Pratt-street bridges, an improved large size lantern, and a burner using double the quantity of gas of ordinary lamps, (10 feet per hour.) These lamps answer the purpose of lighting these fine structures well. I think there should be more of them placed in prominent parts of our city, being ornamental, and lighting better than several small jets of gas, as mentioned in previous reports. Since my last report there has been some improvement of the electric light in regard to its being more regular or permanent, the carbons being of a better quality for the purpose; the price has also been reduced twenty-five per cent. It may be desirable to test it in some of the public streets or buildings, but great care should be observed to have the

conducting wires properly covered and insulated, also well separated, and kept from chafing the covering off, so that the electric current is not carried to any combustible material, or do other damage. This can readily be done, but it requires care and attention.

Respectfully submitted,

F. W. KING,
General Superintendent of Lamps.

LIST OF TABLES

Annexed to the Report of the General Superintendent of Lamps and Inspector and Sealer of Gas Meters, for the year ending December 31st, 1881:

Table A exhibits the number and size of gas meters inspected and sealed; also rejected, being incorrect or otherwise out of order.

Table B shows the amount received by the department and paid to the City Register on the warrant of the Comptroller, from January 1st to December 31st, 1881.

Table C exhibits the amount of appropriations, and amounts expended, with balance unexpended.

Table D shows the amounts required for the year ending December 31st, 1882.

Table E shows the length and size of gas mains laid as directed by resolutions of the Mayor and City Council, reported by the Gas Company, from May, 1880 to December 31st, 1881.

TABLE A,

Exhibits the Number and Size of Gas Meters Inspected and Sealed, also rejected, being incorrect or otherwise out of order.

	Size and Number of Meters Inspected and Sealed, being Correct.											
Number of Lights...	2	3	5	10	20	30	45	60	80	100	150	200
	78	5368	6424	1471	356	60	55	19	6	23	7	2

	Size and Number of Meters Rejected, being Incorrect and otherwise out of Order.									
Number of Lights	2	3	5	10	20	30	45	60	80	100
	3	57	139	32	4	1	3	3	1	7

In addition to the above, there were sixty-nine (69) street lamp meters taken out and tested. Thirty-one (31) were found to be incorrect and otherwise out of order.

TABLE B

Shows the amount received by the Department and paid to the City Register on the warrant of the Comptroller, from January 1 to December 31, 1881.

Inspecting Gas Meters	$3,133 00
Repairs of Lamps	93 42
	$3,226 42

TABLE C

Exhibits the amount of Appropriations and amounts Expended, with the balance unexpended.

	DR.	CR.
Lamp-Pillar and Lamp Account	$22,534 45	$25,000 00
Balance	2,465 55	
	$25,000 00	
Gas Account	$176,530 13	$186,334 68
Balance	9,804 55	
	$186,334 68	
One thousand Signs, as per contract with Thomas Robier..	$1,750 00	$1,750 00

TABLE D,

Showing the Amount required for the year ending December 31, 1883.

Lamp-Pillars and Lamps, including Gasoline Lamp Supplies and Repairs; Gas and Gasoline Posts; Lamps or Lanterns; Repairs of Gas Lamps, Street Signs, and Incidentals.....	$25,000 00
Gas Account, including Gas for Street Lamps; Markets; Halls; Bridges; Squares; Electric Lights, &c.....	$167,000 00
Keeping General Superintendent's Horse and Wagon.....	$300 00

TABLE E,

Showing the Length and Size of Gas Mains laid and reported by the Consolidated Gas Company, as directed by Resolutions of the Mayor and City Council, from May 1880 to December 31, 1881.

1880.	feet.	inch.
June—Calvert street, from John street to the bridge	593	4
Crossing Calvert-street bridge, $583.20		
September—Eutaw Place, from Wilson to Robert street, one side	1010	4
North avenue, from John street East	942	4
October—Chase street, between Greenmount avenue and Constitution street	162½	4
Henrietta street, between Sharp and Howard streets	584	4
Calvert street, from the bridge to North avenue	678	4
November—Druid Hill avenue, from Bloom to Presstman street	413	4
Division street, between Laurens and Gold streets	1594	4
Laurens street	12	4

TABLE E—Continued.

1881.	feet	inch.
May 9—Truxton street, from Forrest street to Greenmount avenue.	103	4
Eager street, from Bond street to Broadway.	474	4
Chase street, from Wolfe to Washington street; Chase street, from Greenmount to Harford avenue	1792	4
Washington street, from Orleans to Chase street	2352	4
Biddle street, from Greenmount avenue to forty feet beyond Valley street	560	4
June 2—St. Paul street, between John street and bridge	528	4
North street, between John street and bridge.	168	4
John street, between Calvert and North streets.	456	4
Monument street, between Ann and Gist streets	2028	4
Rep. July 2—Across St. Paul-street bridge	1080	4
Druid Hill avenue, between Laurens and Wilson streets.	402	4

TABLE E—Continued.

1881.	feet.	inch.
Rep. July 2—Poultney street, from Light street to James alley	378	4
East Biddle street, from Greenmount avenue to Aisquith street	744	4
Druid Hill avenue, from Bloom to Gold street	510	4
Wilson street, from Linden avenue to Bolton street	216	4
Eutaw Place, north of Wilson street	1548	4
August 3—Charles street, between West and Kelso streets	5046	4
Vine street, between Gilmor and Stricker streets	216	4
September 2—Over the bridge at St. Paul street	1164	4
Lancaster street, west of Caroline street extension	1596	4
October 4—Aliceanna street, from President to Albemarle street	420	4

TABLE E—Continued.

1881.	feet.	inch.
October 4—West side of Central avenue, between Holland and Mullikin streets	240	4
Hanover street, between West and Jasper streets	3823½	4
November 4—Boundary avenue, between Oliver street and the bridge	1008	4
Hanover street, from Heath to Cromwell street	984	4
Division street, from Gold street to Boundary avenue.	686	4
Fort avenue, from Webster to Hull street	3083	6
John street, from Lanvale to Dolphin street	456	4
Johnson street, from York to Hughes street	180	4
Allison's alley, north of Smith lane	120	4
Barre street to Calhoun alley	96	4
December—Fort avenue to Baltimore and Ohio Railroad track, near McNeal street	1690	6

TABLE E—Concluded.

1881.	feet.	inch.
December—Hull street, from Fort avenue to near Beason street	1224	4
Jackson street, from Fort avenue to Clement street	420	4
Clement street, from Jackson to Boyle street	1038	4
Aliceanna street, from Bond to Caroline street	366	4
Mount Royal avenue or Oliver street, from Dolphin to McMechen street	1260	4
Chester street, from Baltimore street to alley north of Baltimore street	168	4
Druid Hill avenue, from Gold street to North avenue	240	4
Fort avenue, from Neal to Benjamin street	528	6

ANNUAL REPORT

OF THE

WATER DEPARTMENT,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881.

OFFICERS OF THE WATER BOARD,

JANUARY 1, 1882.

Commissioners:

HON. WM. PINKNEY WHYTE, MAYOR,
Ex-Officio President.

GEORGE U. PORTER, *Secretary.*
JOHN F. HUNTER,
GEORGE P. THOMAS,
THOMAS BOND,
WM. A. FISHER,
N. RUFUS GILL.

Registrar's Department:

SAM'L KIRK, *Water Registrar.*
JAS. A. MARRIAN, *General Book-Keeper.*
JAS. S. ETCHBERGER, *Cashier.*
J. J. C. SCULLY, *Clerk of Errors.*
F. A. HOGG, *Ledger Clerk.*
E. J. EDWARDS, "
WM. F. HYNSON, "
JNO. GIBSON, "
THOS. H. BLICK, *Clerk of Delinquents*

BENJ. PRICE,
GEO. A. COLEMAN,
JNO. D. ALCOCK,
D. G. CARLISLE,
S. L. AUERBACH,
W. A. MALONEY,
} *District Inspectors and Bill Distributors.*

GEORGE W. EMMERICH, *Hydrant Inspector.*

Engineer's Department:

JAMES CURRAN, *Water Engineer.*
ROBERT K. MARTIN, *Civil Engineer.*
RICHARD D. MURPHY, *Engineer's Clerk.*

REPORT.

BOARD OF WATER COMMISSIONERS—CITY HALL.

BALTIMORE, January 2, 1882.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

In compliance with the ordinance defining the duties of the Board of Water Commissioners, they herewith present to your Honorable Body their report, showing the operations of the Water Department for the year ended December 31, 1881.

FINANCIAL.

There remained to the credit of the Gunpowder Permanent Supply account, December 31, 1880	$112,975 07
Cash in hands of Water Registrar	1,489 39
	$114,464 46
Less revenue account, overdrawn	2,964 37
Leaving available balance	$111,500 09
Amount carried forward	$111,500 09

Amount brought forward		$111,500 09
Adding receipts from all sources for year 1881		739,573 11
Gave the total available amount		$851,073 20
The disbursements during the year aggregated		828,989 52
Leaving balance, December 31, 1881		$22,083 68
Of which there belonged to revenue account	$14,850 59	
Permanent Supply	7,233 09	
	$22,083 68	

The disbursements for the year were chargeable as follows:

Gunpowder Permanent Supply	$105,741 98
Permanent Supply distributing mains	37,864 63
Lake Clifton	90,663 64
Working expenses	79,651 96
Distributing mains (small)	28,923 36
Dredging Lake Roland	13,730 36
Twelve months' interest on $9,000,000 Water Stock of city	452,630 00
Water meters	10,057 18
Pumps, fountains, &c	1,855 26
Fire plugs	2,902 20
Returned money	1,875 05
Tools and fixtures	390 95
Commissioners of Finance—interest	2,500 00
Total	$828,989 52

REVENUE.

The net revenue for the year from water rents, meter supplies, plumbing, &c., after deducting the sum of $31,274.03—discount allowed on bills of 1881—was $599,223.11, as against $606,879.06 in 1880. The decrease was occasioned by the reduction in the price of water to consumers per meter; the amount collected from such supplies being but $57,853.12, against $72.483.52 in the preceding year—a decrease of $14,630.40. Besides the revenue collected from water, as above, there were received from the bondsman of W. F. Sinclair (defaulting clerk) $7,000; from Mayor and City Council, appropriations amounting to $8,350, being the actual cost of certain work done by the department under resolutions passed by the Council, and provided for in the levy; àlso, a loan of $125,000 from the Commissioners of Finance, payable in four months from the 1st of November, 1881—in all amounting to $739,573.11.

The very urgent necessity for the speedy completion of the Gunpowder Permanent Supply works, to make available the water for the wants of our citizens, rendered it obligatory on the part of the Board to continue to meet, from the revenue of the department, the entire cost of the works at Clifton, and also, the Permanent Supply distributing mains in the city; neither of which were provided for in the city's Four Million Gunpowder Loan.

There were expended during the past year for these permanent works, from the revenue account, $128,528.27; and since May, 1879, to present date, the department have expended for Permanent Supply mains $378,489.95,

and for Lake Clifton $225,296.34—making together an aggregate of $603,786.29.

All further work at Clifton will have to be suspended until the means are provided for securing its completion; and so fully impressed are the Board as to its great necessity—being a most important link in the vast chain comprising the works of the Gunpowder Supply—that they most earnestly recommend to your Honorable Body the passage of a resolution requesting the General Assembly to pass an enabling Act, to authorize a city loan sufficient to cover its further cost, and also, to provide for a more general extension and enlargement of city water mains, so that our citizens may be enabled to avail, to the fullest extent needed, of the benefits of the new and abundant supply.

EXAMINATION OF ACCOUNTS.

A thorough examination of the books of the department, by competent experts especially appointed, and whose investigation extended back from 1881 to 1873, exhibited defalcations on the part of several of the late officers, as follows: Wm. L. Sharretts, Registrar, for the sum of $3,006.96; of this amount Mr. W. L. Sharretts has returned $1,565.14; Wm. F. Sinclair, Chief Clerk, for the sum of $33,250.38; George W. Sharretts, Ledger Clerk, for the sum of $7,084.40; R. M. L. Woodward, $631.50, and S. W. Thomas, $244.50—making in all $44,217.74.

Proof of guilt having first been discovered against Wm. F. Sinclair and Geo. W. Sharretts, they were promptly put under arrest, and subsequently indicted for embez-

zling the funds of the City, but by some technicality in the law, both parties escaped conviction. Before instituting proceedings against their bondsmen, the board waited until the examination of the experts was fully completed. Suit was first entered against the bondsman of Sinclair to recover, but the matter was finally compromised, by the advice of the City Solicitor, under authority conferred by ordinance passed by the City Council and approved by the Mayor.

Proceedings are pending against the bondsmen of the other parties defaulting, which, in due time, will be settled by the courts.

LOWER WATER RATES FOR STEAM POWER.

The present charge, fixed by ordinance per horse power, is five dollars, or if preferred, the option is given to be rated per meter. Late experience has convinced the Board that it would be better to reduce the charge to $2.50 per horse power, with the same privilege with regard to meters; but, in the opinion of the Board, no meter should be allowed to remain where the registered consumption proves less than the ordinances fixes for dwellings or warehouses; otherwise, in many cases, great inequality is shown in the practical working of the law. To obviate this objection and advantage over other water-takers, not privileged to have meters, the Board would recommend, that in no case should a quarterly meter bill be rendered for less than $2.50, which would be on a parity with the charge for a warehouse.

WATER RATES PER METER.

The present daily consumption of water in our city falls short of twenty million of gallons, and at the rate

of *eight cents per thousand gallons* for the entire consumption, would amount, for twelve months, to $584,000 gross, and less ten per cent. discount, would net but $525,600. These figures prove that the present rate for water, per meter, is not only cheaper than the fixed rates per annum, paid by all other consumers, but that the revenue for the present entire consumption, at eight cents per 1,000 gallons, would net much less than is required to meet the annual interest on water loans, with the expenses necessary to maintain the Department, and keep up its efficiency. Under these circumstances, and until the increased demand more fully warrants, the Board of Commissioners are unable to recommend any further reduction in price, per meter, without running the risk of increasing the city tax levy to make up for the deficient revenue, which would inevitably follow.

THE WATER ENGINEER

Has made during the year all the cross connections that were provided for along the line of the 40-inch main, extending from Washington street, east, along Lombard to Paca street, west—all of which were finished and ready in August, for distributing the new supply; but it was not until the 29th September that the water was formally turned on; and most timely too, for the long drought had dried up the streams running into Lake Roland, so that, notwithstanding the temporary pumps were kept daily at work from the 23d July, they were unable to replenish the daily draw for the city's consumption—hence, the Lake steadily diminished until

the water was *eight feet below the dam*; and when the new supply was introduced, was still *seven feet below*. During the four months of low water in Lake Roland, the temporary pumps sent from the Gunpowder 714 millions of gallons—equal to about thirty days' supply for the city's consumption.

Within the year, twenty-seven new fire plugs were erected—making the whole number now 879. There were 82 new meters set—making the total number now in use 604. The number of public fountains in the city is 79. New mains, varying in size from 1½ to 10 inches, inclusive, equal in length to eight miles and 4,355 feet, were laid the past year—making the aggregate length of distributing mains of all sizes, 284 miles 1,217 feet—the aggregate cost of which, and including the permanent supply mains to date, foots up $2,035,566.05. The mechanical branch of the service shows equally satisfactory results with former years. The last five gates for Clifton were completed in June—making ninety-two on the whole Gunpowder line. Their erection and connections were only finished in September. Now that the Gunpowder Works are completed, the future operations in this branch of the service will be very materially curtailed.

CITY'S ENTIRE LINE OF WATER WORKS.

The aggregate amount which have been expended by the city since the creation of the Board of Water Commissioners, on both the Jones' Falls and Gunpowder Works, and including the distributing mains, is $10,197,-

267.48, and which is represented by but $9,000,000 of the city's credit, of which $263,000 bears interest at 6 per cent., and all the residue at 5 per cent.

RE-ORGANIZATION OF THE ENGINEER'S DEPARTMENT.

The Board, at their monthly meeting in December, under authority granted by city ordinance, consolidated the positions of civil engineer and water engineer, under the title of "Chief Engineer"—the same to take effect from the 1st of January, 1882—and elected Mr. R. K. Martin to fill the new position, and with power to recommend his subordinates to the Board for appointment. Mr. Martin has been identified with the Water Department of Baltimore from his youth, he having been one of the young assistant engineers on the Jones' Falls line of works, and on their completion, was retained by the Board as Civil Engineer, and was engaged in the construction of Druid Lake and High Service Reservoir, and still later, the Gunpowder Permanent Supply; the successful completion of which, and the masterly ability and earnest devotion to the interest of the city, as shown by him in the construction of these great works, appeared to the Board as an opportune time for the re-organization of the Engineer's Department, with Mr. Martin as chief.

For fuller and more complete information concerning the working of the Water Department for the past year, the Board respectfully invites the attention of

your Honorable Body to the accompanying reports of the Registrar, Water Engineer and Civil Engineer.

THOMAS BOND,
President pro tem.

GEORGE U. PORTER,
Secretary.

JOHN F. HUNTER,
N. RUFUS GILL,
GEORGE P. THOMAS,
WILLIAM A. FISHER,
Commissioners.

Water Registrar's Report.

REPORT.

WATER REGISTRAR'S OFFICE—CITY HALL,

Baltimore, December 31, 1881.

To the Honorable the President and
Members of the Water Board:

GENTLEMEN:

As required by City Ordinance No. 10, section 8, I herewith present my annual report with accompanying statements, showing receipts and disbursements for the year ending December 31, 1881.

The receipts for the year were as follows:

From Water Rents, 1881	$373,316 32
" " " 1880	141,851 12
" " " 1879	13,710 11
" " " 1878	9,675 06
" Meter "	57,853 12
	$596,405 73
Less discount on 1881 water rents	31,274 03
	$565,131 70
Amount carried forward	$565,131 70

	Amount brought forward	$565,131 70
From	Plumbing bills	$24,908 35
"	Interest	4,498 16
"	Gunpowder real estate	3,122 08
"	Real estate	500 00
"	Distributing Main	566 66
"	Lake Roland	258 50
"	Pump house	4 30
"	Hampden Reservoir	45 00
"	Lake Clifton	30 64
"	Druid Lake	60 00
"	Mount Royal Reservoir	28 00
"	Permanent supply distributing main	29 59
"	Profit and loss	7,000 00
"	Permanent supply	30 77
"	Water meters	1 36
"	Pumps and fountains	3 00
"	Conduit	5 00
"	Mayor and City Council, sundry appropriations	8,350 00
"	Commissioners of Finance	125,000 00
	Net receipts	$739,573 11
Add	amount of discount allowed on 1881 water rents	31,274 03
Gross receipts		$770,847 14

The disbursements for the year were as follows:

Paid	plumbing department	$10,071 07
"	Repairs	5,450 72
"	Lake Roland	3,525 21
	Amount carried forward	$19,047 00

	Amount brought forward	$19,047 00
Paid	Salaries Registrar's Department	20,855 40
"	" Engineer's "	9,502 47
"	Pump house	6,864 37
"	Temporary supply	10,455 54
"	Water meters	3,605 27
"	Current expenses	3,216 77
"	Druid Lake	4,085 45
"	Printing and stationery	1,222 49
"	High Service Reservoir	92 50
"	Hampden "	120 17
"	Mount Royal "	379 43
"	Telegraph line	205 10
	Working expenses	$79,651 96
Paid	Gunpowder permanent supply	105,741 98
"	Permanent supply distributing main	37,864 63
"	Lake Clifton	90,663 64
"	Distributing main	28,923 36
"	Lake Roland, dredging	13,730 36
"	New water meters	6,451 91
"	Fire plugs, pumps and fountains	4,757 46
"	Water rents refunded, paid in error	1,875 05
"	Gunpowder real estate	3,773 42
"	Real estate	34 80
"	Tools and fixtures	390 95
"	12 months' interest on water stock	452,630 00
"	Finance Commissioners	2,500 00
	Total disbursements for the year 1881	$823,989 52

The following statements show in detail the financial transactions of my department for the year 1881 :

Statement A, Water Registrar's cash account.
" B, Water Registrar's disbursement account.
" C, Trial balance general ledger.
" D, Balance sheet general ledger.
" E, Receipts.
" F, Disbursements.
" G, New supplies.
" H, Abatements.
" I, Estimated revenue for 1882.
" K, Balances remaining on the books of the department December 31, 1881.

The total of discoveries by the District Inspectors for the years 1880 and 1881, charged upon the 1881 ledgers, amount to $46,222.29, which do not appear on the list of new supplies.

Included in the above-named discoveries were a number of duplicate charges, which has greatly increased amount of statement of abatements.

Respectfully submitted,

SAM'L KIRK,
Water Registrar.

STATEMENTS.

STATEMENT A.

Water Registrar's Cash Account for the year 1881.

		Dr.	Cr.
To balance on hand December 31, 1880		$1,489 39	
To water rents 1881	$373,316 32		
Less discount on 1881 water rents	31,274 03		
		342,042 29	
To water rents 1880		141,851 12	
" " 1879		13,710 11	
" " 1878		9,675 06	
To meter rents		57,853 12	
To plumbing bills		24,908 35	
To interest on back water rents		4,498 16	
To Gunpowder real estate		3,122 08	
To real estate		500 00	
To distributing main		566 66	
To Lake Roland		258 50	
To pump-house		4 30	
To Hampden Reservoir		45 00	
To Lake Clifton		30 64	
To Druid Lake		60 00	
Amount carried forward		$600,614 78	

STATEMENT A—Concluded.

	Dr.	Cr.
Amount brought forward.....	$600,614 78	
To Mount Royal Reservoir.....	28 00	
To Permanent Supply distributing main	29 59	
To Permanent Supply..	30 77	
To water meters.....	1 36	
To pumps and fountains.....	3 00	
To conduit.....	5 00	
To appropriations for public drinking fountains and water mains.....	8,350 00	
To Commissioners of Finance.	125,000 00	
To Profit and Loss.....	7,000 00	
By deposits with City Register from January 3, 1881, to December 31, 1881.....		$739,237 00
By balance on hand December 31, 1881.....		1,825 50
	$741,062 50	$741,062 50

STATEMENT B.

Water Registrar's Disbursement Account for the year 1881.

	Dr.	Cr.
To warrants on City Comptroller, from January 10, 1881, to December 31, 1881	$828,989 52	
By Gunpowder Permanent Supply		$105,741 98
By permanent supply distributing main		37,864 63
By Lake Clifton		90,663 64
By distributing main		28,923 36
By Lake Roland		17,255 57
By salaries Registrar's Department		20,855 40
By salaries Water Engineer's Department		9,502 47
By Plumbing Department		10,071 07
By pump house		6,864 37
By repairs		5,450 72
By temporary supply		10,455 54
By water meters		10,057 18
By current expenses		3,216 77
By Druid Lake		4,085 45
Amounts carried forward	$828,989 52	$361,008 15

STATEMENT B—Concluded.

	Dr.	Cr.
Amounts brought forward.	$828,989 52	$361,008 15
By pumps and fountains		1,855 26
By fire plugs		2,902 20
By returned money		1,875 05
By printing and stationery.....		1,222 49
By real estate		34 80
By Gunpowder real estate.....		3,773 42
By High Service Reservoir.....		92 50
By Hampden Reservoir.....		120 17
By Mount Royal Reservoir.....		379 43
By telegraph line		2 5 10
By tools and fixtures.....		390 95
By Commissioners of Finance.		2,500 00
By twelve months' interest on Water Stock.....		452,630 00
	$828,989 52	$828,989 52

STATEMENT C,

Dr. *Trial Balance General Ledger*

7	Real estate and water rights	$771,576 78
9	Construction of new works	2,775,551 95
36	Mayor and City Council	20,258 18
72	Water Registrar's cash account	1,825 50
107	Distributing main	1,657,112 94
112	Permanent supply distributing main	378,453 11
126	Repairs	5,450 72
189	Fire plugs	2,902 20
200	Pumps and fountains	1,152 26
215	Water meters	33,366 05
220	Telegraph line	205 10
225	Lake Roland	16,997 07
234	Druid Lake	4,025 45
245	High Service reservoir	92 50
254	Hampden reservoir	75 17
260	Mount Royal reservoir	351 43
269	Pump house	6,860 07
271	Tools and fixtures	5,713 94
274	Temporary supply	10,455 54
287	Current expenses	3,216 77
291	Printing and stationery	1,222 49
292	Salaries Engineer's Department	9,502 47
296	" Registrar's "	20,855 40
305	Permanent supply	4,114,514 93
314	Lake Clifton	225,231 84
319	Gunpowder real estate and water rights	220,891 54
321	Returned money	1,875 05
540	Discount on 1881 water rents	31,274 03
		$10,321,010 48

STATEMENT C.

December 31, 1881. Cr.

2	City six per cent. Water Stock.....	263,000 00
3	" five " "	8,737,000 00
4	Profit and loss.....	581,604 17
5	Commissioners of Finance	125,000 00
171	Plumbing Department.....	13,497 42
221	Conduit	5 00
624	1881 Water rents.	373,316 32
522	1880 " "	141,851 12
439	1879 " "	13,710 11
405	1878 " "	9,675 06
565	Meter rents.....	57,853 12
610	Interest.....	4,498 16
		$10,321,010 48

STATEMENT D.

Dr. *Balance Sheet General Ledger,*

7	Real estate and water rights	$771,576 78
9	Construction of new works	2,775,551 95
72	Water Registrar's cash account	1,825 50
107	Distributing main	1,657,112 94
113	Permanent Supply distributing main	378,453 11
215	Water meters	26,136 77
278	Tools and fixtures	5,713 94
305	Permanent Supply	4,114,514 93
314	Lake Clifton	225,231 84
319	Gunpowder real estate and water rights	220,891 54
651	Mayor and City Council	20,258 18
		$10,197,267 48

STATEMENT D.

January 1, 1882. Cr.

2	City Six Per Cent. Water Stock.....	$263,000 00
3	" Five " "	8,737,000 00
4	Profit and Loss.....	1,072,267 48
5	Commissioners of Finance.....	125,000 00
		$10,197,267 48

STATEMENT E.

Receipts of the Water Department for the year 1881.

	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November	December.	Totals.
1881 Water Rents	$92,722 15	$182,561 89	$27,612 08	$9,140 07	$6,000 04	$6,227 67	$3,710 14	$8,433 09	$6,326 06	$5,416 53	$7,082 10	$18,084 50	$373,316 32
1880 "	22,534 75	15,177 84	16,412 53	41,765 44	20,496 11	14,640 11	4,593 88	1,994 33	1,155 16	1,149 13	1,186 12	745 72	141,851 12
1879 "	1,245 20	605 58	1,103 19	1,755 92	2,024 93	2,250 01	749 87	1,270 74	854 71	824 63	629 96	395 37	13,710 11
1878 "	1,039 33	632 51	596 33	898 76	1,219 01	1,707 25	585 59	617 75	761 59	774 89	601 71	240 34	9,675 06
Meter Rents	18,765 37	38 17	347 31	9,819 48	417 58	367 39	12,420 01	965 61	89 40	14,274 00	276 26	72 54	57,853 12
Plumbing Department	1,141 36	836 48	669 79	1,670 07	2,371 07	1,950 50	2,571 61	1,576 46	3,467 23	1,635 73	4,833 37	2,184 68	24,908 35
Real Estate												500 00	500 00
Distributing Main	35 21	99 56	6 00	6 00	6 00	6 00	6 00	6 00	65 89	229 20	94 86	6 00	566 66
Lake Roland	69 50	30 00					25 00					134 00	258 50
Pump House				4 30									4 30
Interest	201 99	210 41	307 24	858 62	740 37	773 44	291 57	293 03	202 11	262 62	238 49	118 27	4,498 16
Gunpowder Real Estate	125 00	1,958 33	250 00	13 00	3 00	251 75	6 00	3 00	253 00	3 00	6 00	250 00	3,122 08
Hampden Reservoir						30 00				15 00			45 00
Lake Clifton			14 14						16 50				30 64
Druid Lake				60 00									60 00
Mount Royal Reservoir							18 00		8 00		2 00		28 00
Permanent Supply Distributing Main			14 13					15 46					29 59
Profit and Loss											7,000 00		7,000 00
Permanent Supply		1 85				28 92							30 77
Water Meters		1 36											1 36
Pumps and Fountains			3 00										3 00
Conduit						5 00							5 00
	$137,879 86	$202,153 92	$47,335 74	$65,991 66	$33,278 11	$28,238 04	$24,977 67	$15,175 47	$13,199 65	$24,584 73	$21,950 87	$22,731 42	$637,497 14
Received Appropriation for Public Drinking Fountains													700 00
" " " Water Mains													7,650 00
" from Commissioners of Finance													125,000 00
Total Receipts for the year													$770,847 14

STATEMENT F.

Disbursements of the Water Department for the Year 1881.

	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November	December.	Totals.
Gunpowder Permanent Supply	$5,504 42	$17,974 01	$3,809 27	$5,389 96	$10,960 85	$9,790 68	$11,590 04	$17,329 05	$7,920 27	$9,234 73	$2,338 26	$3 900 44	$105,741 98
Permanent Supply Distributing Main	5,010 00	3,094 41	732 09	2,614 33	2,974 81	2,952 90	11,270 16	2,128 69	1,806 42	873 80	3,964 39	442 57	37,864 63
Lake Clifton	6,012 92	1 922 47	3,856 75	6,473 23	6,874 36	10,150 57	11,574 83	11,066 11	12,185 34	7,824 70	8,460 89	4,261 47	90,663 64
Distributing Main	1,249 62	354 37	629 03	1,482 14	5,304 92	3,464 03	4,379 82	3,996 18	1,972 19	1,699 30	1,002 42	3,389 34	28,923 56
Lake Roland	76 45	5 42	12 38	356 21	329 30	14,039 60	270 75	307 02	799 56	367 30	385 34	306 24	17,255 57
Salaries Registrar's Department	1,568 81	1,835 96	1,797 61	1,766 66	1,774 96	1,744 96	1,741 62	1,774 96	1,774 96	1,774 96	1,691 63	1,608 30	20,855 40
Salaries Water Engineer's Department	800 16	798 33	798 33	808 33	806 33	801 01	808 33	798 33	733 33	743 33	798 33	808 33	9,502 47
Plumbing Department	715 51	282 57	493 53	1,086 51	1,132 19	986 12	867 58	613 18	1,148 39	1,023 89	779 85	941 95	10,071 07
Pump House	212 54	693 82	49 82	61 98	102 86	114 27	3,001 80	17 45	22 87	57 41	2,281 50	248 05	6 864 37
Repairs	530 60	658 61	385 21	292 15	202 10	196 44	339 10	347 96	400 73	500 40	765 81	831 61	5,450 72
Temporary Supply	1,258 97	149 20	150 78	143 75	141 34	169 01	172 50	555 79	2,566 76	2,951 43	1,477 88	718 13	10,455 54
Water Meters	848 50	1,022 13	205 66	784 24	202 13	447 15	1,226 29	406 75	834 74	1,869 56	1,691 75	428 28	10,057 18
Current Expenses	247 96	314 42	233 92	841 09	201 91	149 40	243 01	142 68	209 08	172 96	196 85	263 49	3,216 77
Druid Lake	157 47	256 37	183 25	448 92	784 70	337 36	315 85	332 93	445 92	322 27	265 49	234 92	4,085 55
Pumps and Fountains	195 32	237 49	153 33	169 87	106 76	166 69	197 10	152 85	103 49	133 79	111 50	127 07	1,855 26
Fire Plugs	249 22	280 67	606 60	640 67	249 10	161 21	141 25	145 25	107 73	77 62	132 52	110 36	2,902 20
Returned Money	134 17	103 48	138 14	330 25	208 33	270 60	188 35	155 99	106 73	61 33	123 21	54 47	1,875 05
Printing and Stationery	72 75	139 22	9 00	196 82	66 85	36 00	29 70	155 55		22 29	10 50	483 80	1,222 49
Real Estate				34 80									34 80
Gunpowder Real Estate			572 74		3,152 18							48 50	3 773 42
High Service Reservoir						22 50	70 00						92 50
Hampden "	83			19 75	20 66	27 38	11 18	21 25		18 00	1 12		120 17
Mount Royal "	3 00			60 69	36 62	25 50	96 60	11 25		28 94		116 77	379 43
Telegraph Line				13 60				51 50	140 00				205 10
Tools and Fixtures	40 30	32 32	23 07	14 44	27 83	22 70	29 46	69 63	17 53	14 87	41 89	56 91	390 95
Commissioners of Finance												2,500 00	2,500 00
	$24,889 52	$30,155 27	$14,840 51	$24,030 40	$35,751 09	$46,076 14	$48.565 19	$40,580 35	$33,296 04	$29,772 88	$26,521 13	$21,881 00	$376,359 52
Paid Twelve Months' Interest on $9,000,000.00 Water Stock													452,630 00
Total Disbursements for the year													$828,989 52

STATEMENT G.

New Supplies for the year 1881.

352	Houses,	at $5 00...	$1,760 00	
304	"	" 7 50...	2,280 00	
312	"	" 9 00...	2,808 00	
160	"	" 12 00...	1,920 00	
26	"	" 14 00...	364 00	
				$9,132 00
10	Warehouses,	" 6 00 ..	$ 60 00	
8	"	" 8 00...	64 00	
42	"	" 10 00...	420 00	
				544 00
472	Baths,	" 2 00...	944 00	
443	Water Closets,	" 2 00...	886 00	
225	Hose,	" 3 00...	675 00	
281	Horses,	" 1 50...	421 50	
126	Carriages,	" 1 50...	189 00	
26	Cows,	" 1 00 ..	26 00	
				3,141 50
		SPECIALS.		
8	Bars,	at $3 00...	$ 24 00	
12	"	" 5 00...	60 00	
7	Barbers,	" 3 00...	21 00	
2	Bakeries,	" 3 00...	6 00	
Amounts carried forward.....			$111 00	$12,817 50

STATEMENT G—Continued.

Amounts brought forward.....			$111 00	$12,817 50
4 Drugs,	at	3 00...	12 00	
3 Soda-water fount'ns	"	5 00...	15 00	
1 Fountain,	"	10 00 ..	10 00	
1 Bottling establ'mt,	"	10 00...	10 00	
13 Urinals,	"	1 50...	19 50	
1 Public Bath,	"	10 00...	10 00	
1 Filter,	"	5 00...	5 00	
1 "	"	10 00...	10 00	
1 Moter,	"	5 00...	5 00	
1 "	"	25 00...	25 00	
1 Cooper,	"	5 00...	5 00	
2 "	"	10 00...	20 00	
5 Forges,	"	2 50...	12 50	
7 Churches,	"	10 00...	70 00	
1 School,	"	10 00...	10 00	
1 Shoe factory,	"	5 00...	5 00	
1 Wax factory,	"	10 00...	10 00	
1 Foundry,	"	10 00...	10 00	
2 Errick pumps,	"	6 00...	12 00	
1 Butchery,	"	5 00...	5 00	
2 "	"	10 00...	20 00	
1 Greenhouse,	"	2 50...	2 50	
1 "	"	10 00...	10 00	
Amounts carried forward.....			$424 50	$12,817 50

STATEMENT G—Concluded.

Amounts brought forward.....						$424 50	$12,817 50
1	Oyster establ'nt,		at	20	00 ..	20 00	
1	"	"	"	5	00...	5 00	
1	Tripe-boil'g estab.		"	5	00...	5 00	
1	Special,		"	25	00...	25 00	
28	Boarders,		"		50...	14 00	
1	Dyeing,		"	5	00...	5 00	
1	Boiler, 2 H. P.,		"	5	00...	10 00	
1	"	2½ "	"	5	00...	12 50	
5	"	4 "	"	5	00...	100 00	
1	"	5 "	"	5	00...	25 00	
5	"	6 "	"	5	00...	150 00	
3	"	8 "	"	5	00...	120 00	
1	"	10 "	"	5	00...	50 00	
1	"	13 "	"	5	00...	65 00	
1	"	15 "	"	5	00...	75 00	
1	"	22 "	"	5	00...	110 00	
1	"	26 "	"	5	00...	130 00	
							$1,346 00
Producing a yearly revenue of...							$14,163 50

STATEMENT H.

Abatements condensed for the year 1881.

	1878.		1879.		1880.		1881.	
Vacancies	77	$935 88	146	$2,175 33	382	$4,489 82	240	$1,752 31
Baths	...	...	....	15 00	....	69 22	....	298 00
Bars	1	3 00	2	6 00	8	20 75	84	270 17
Water closets	2	4 00	4	8 00	17	34 00	116	241 00
Hose	5	13 50	10	28 50	47	121 69	271	803 52
Horses	13	18 75	24	36 00	62	105 00	485	775 75
Carriages	4	6 00	3	4 50	13	19 50	182	309 25
Cows	...	...	10	10 00	5	3 75	68	67 75
Extra families	....	...	....	...	4	8 00	23	45 00
Rents reduced	8	74 00	8	91 50	40	211 50	98	633 50
Rents duplicated and torn down	68	1,011 03	105	1,504 23	359	4,660 41	311	4,582 82
Urinals	...	...	....	...	1	1 50	6	8 50
Specials	30	311 00	36	384 91	61	985 20	141	1,965 68
		$2,377 16		$4,263 97		$10,730 34		$11,753 25

Total amount of abatements for the year..... $29,124 72

STATEMENT I.

Estimated Revenue for 1882.

11,659	Houses,	at $5 00	$58,295 00	
13,790	"	" 7 50	103,425 00	
13,467	"	" 9 00	121,203 00	
5,727	"	" 12 00	68,724 00	
2,975	"	" 14 00	41,650 00	
316	Warehouses,	" 6 00	1,896 00	
453	"	" 8 00	3,624 00	
1,159	"	" 10 00	11,590 00	
49,546				$410,407 00
10,431	Baths,	" 2 00	20,862 00	
6,322	Water Closets,	" 2 00	12,644 00	
3,309	Hose,	" 3 00	9,927 00	
4,868	Horses,	" 1 50	7,302 00	
610	Cows,	" 1 00	610 00	
179	Extra families,	" 2 00	358 00	
				51,703 00
3,632	Special supplies and meters.....			64,482 21
				$526,592 21

STATEMENT K.

Balance remaining on the Books of the Department December 31, 1881.

1881, Water rents	$159,287 02
1880, " "	22,129 34
1879, " "	2,620 00
Meter rents	196 94
Work bills	3,302 17
	$187,535 47

Water Engineer's Report.

REPORT.

OFFICE OF THE WATER ENGINEER,

Baltimore, January 2, 1882.

To the Honorable the President and
Members of the Water Board:

GENTLEMEN:

In accordance with the ordinance requiring the Water Engineer to report in full the condition of the works under his charge, the amount of expenses during the year, and all information required by the Water Board, I respectfully report the operations of the Water Engineer's Department for the year 1881.

The snow protected the distributing mains and service pipes, but the fire plugs required the greatest attention, particularly the old style. The upheaving of the frost in the streets over the 40-inch pipes, but recently laid, gave considerable labor in repairing the paving.

A very unusual change in the quality of the water made its appearance on the 19th of January, and continued until the middle of April. It was more remarkable from the fact of its appearance in midwinter. Such change often takes place in spring and summer; a clay-

like taste was apparent, and its shifting from one section of the city to the other, was very singular. The usual method of flushing the pipes was seriously checked, in consequence of the gutters being full of ice. The city's consumption of water in March, when compared with its pipe capacity, was showing a circulation six times greater. There has not been that confined condition of the water in Lake Roland by the ice, as has been generally spoken of, for a cause of bad water, and the ice has frequently been thicker, and the lake closed up longer, without producing any bad effect. The waste over the dam was constant. In February it was 27¾ inches; in March 42 inches, and wasting continued until July. The conduit was flushed at Harper's Waste Weir in February, March, April, May and June. The pipe-lines between Hampden and Druid Lake, and the city pipes, were constantly under the flushing operations—day, night and Sundays—until the 16th of April, when a change for the better took place. In the mean time, the Board had invited Prof. Remsen, of the Johns Hopkins University, to prospect for the cause of the bad water. His report was presented to you April 11th, 1881. The water has been in excellent condition the balance of the year. As soon as the season permitted, attention was given to making the connections that were provided for on the 40-inch pipes. The eastern line terminated on Washington street, 150 feet north of Eastern avenue. From this point to Alice Ann street, 900 feet of 30-inch pipe were laid; from Washington street, thence along Eastern avenue, Burk, Alice Ann, Luzerne and Hudson streets to city limits, 5,405 feet of 20-inch pipe were laid. From Washington street, thence

along Alice Ann and Chester to the Basin, 750 feet of 16-inch pipe were laid. There were thirty-nine connections made with stops, varying in size from thirty to four inches. The pipe lines and connections were ready for the Gunpowder water in August. September 29th the water was permitted to enter the city; from this date until October 7th, water was permitted to waste from the 40-inch pipes into the Falls and the Basin. It was then admitted into the net-work of piping, which was being served from Mount Royal reservoir, from an elevation of 150 feet above mean tide. At this date the head of water from the Gunpowder had not reached its maximum elevation of 163 feet, it being controlled at Clifton as per agreement, in order to feel our way with the two supplies meeting and adjust to circumstances. Druid Lake at this time was 48½ inches below full capacity, and the gain was regular until November 24th, when it reached its maximum level.

There now remains for the department a very extensive field to deal with, in order to utilize the Gunpowder water. At present, the head of water from the 217 feet service, is used to serve a supply through long lines of small pipes, where the elevation is low enough to be served from the Gunpowder Supply of 163 feet. The capacity of the pipes requires reconstruction, in order to furnish a satisfactory distribution of water.

There has heretofore been a very unsatisfactory supply of water furnished the House of Refuge from the 217 feet service, notwithstanding the base of the institution is 162 feet; the great distance from the source of supply, together with the small pipe and height of

building, destroyed the discrepancy of 55 feet, as shown. By ordinance of the Mayor and City Council, the Water Board was directed to lay pipe from the 350 feet elevation, in order to furnish a better supply, which was completed in July, with 4,874 feet of 4 and 6-inch pipe. Since said time the supply has been satisfactory. Without including the pipe laid for the Gunpowder distributing main, there has been laid from $1\frac{1}{2}$-inch up to 10-inch, inclusive, $8\frac{1355}{5280}$ miles. June 20th an incident of a serious character occurred on McMechen street, near Park avenue. A heavy rain damaged the sewer running parallel with the street to such an extent, that the bed of the street, nearly its width, and about 30 feet in length, was destroyed. Its dimensions can be imagined when it is known that it required about 800 cart-loads of earth to close the opening, which formed the foundation for a 20 and 30-inch pipe. Fortunately, the pipes remained suspended until I procured timbers and chains to secure them. In the meantime, as a precautionary measure, the water was cut off four hours, I being apprehensive that the pipes might part. Damages were repaired, and everything passed off satisfactory. In anticipation of future advances, with suitable pipe for the distribution of the Gunpowder Supply, it is worthy of consideration as to what measures, if any, can be applied to overcome the obstructions now existing in the streets with the net work of gas pipe. The experience of the Department for the past year is not very encouraging; the damage to water pipes has been very extensive, and it will be impracticable to reach them in some places for connections or repairs. The last five gates for Clifton were completed in June, mak-

ing 92 on the whole line. The erection and connections were completed in September.

TEMPORARY PUMPS AT GUNPOWDER FALLS.

July 23d, it was evident that the gravity supply, which is collected at Lake Roland, was falling off less than the city's consumption, it being 25½ inches below the overflow of the dam. I directed one pump of five millions gallons capacity in 24 hours, to be put in operation.

In July there were sent to

Lake Roland	28,465,320	gallons of water.
In August	308,055,072	" "
In September	153,151,752	" "
In October	180,648,000	" "
In November	43,661,804	" "
Total	713,981,948	" "

We experienced great difficulty in procuring coal, which accounts for the duty of pumps commencing in September. In October, the water in Lake Roland was seven feet low, and it was deemed advisable to wagon coal from the city. After hauling sixty tons, the aid of the Gunpowder water by gravity obviated the necessity of making further provision to supply Lake Roland. There were $819\frac{1860}{2240}$ tons of coal purchased, and there remained, as per inventory for January 1, 1881, 300 tons, making $1119\frac{1860}{2240}$ tons; and there is, as per inventory of January 1, 1882, 20 tons of coal and 15 cords of wood on hand; the consumption being $1099\frac{1860}{2240}$ tons for 1881. The machinery, with the exception of some small repairs, after being in service, is in good condition; and

it may be advisable to take some action, in the near future, whether its further use will be required at this point.

DUTY OF PUMPS.

Consumption of coal in pounds.	Height the water is pumped, in feet.	Gallons of water pumped.	Millions of pounds raised one foot high with 100 lbs. of coal.	Gallons of water pumped with 100 lbs. of coal.	Gallons of water pumped with one pound of coal.	Reduced to a common standard of 100 feet high.	Cost of pumping one million gallons.
2,463,620	205	713,981,948	49,489,425	28,981	289.81	59,411	$14 86

LAKE ROLAND.

There was a constant waste over the dam until July 4th, when shrinkage began, and continued until October 28th, when it was seven feet below the crest of the dam. This drop, together with the water received from the temporary pumps, is equal to nine hundred million gallons, or nearly the whole storage capacity of the old works.

In March the water became turbid from the effect of a rain storm that created a flow over the dam 3½ feet deep. The conduit gates were closed eight days. During this time the city's consumption was showing about 18,000,000 gallons per twenty-four hours. There has been 2,356 cubic yards of material removed from the trap on Towsontown Branch, and 8,649 cubic yards removed from Jones' Falls, on each side of the Western Maryland Railroad bridge. The keeper's house and

barn were painted; new spouting was put up on house, and tin roofing on part of the same. There was new flooring placed on the iron bridge below the dam, and the bridge at Hizer's repaired. The material that has lately been dredged from the lake, and distributed over the land, has been under cultivation in corn, in order to prepare it for grass. The land is extremely rich. The corn raised is accounted for elsewhere.

The city's property here is in good condition.

CONDUIT

Is regularly inspected by the keeper from Hampden, to Harper's Waste Weir, and the keeper from Lake Roland to the same point. It was flushed at Harper's waste gates, in February, March, April, May and June. Repairs at culverts and fencing has been done. New post and rail fence, of which there are 112 panels erected, is now under construction. This property is in good condition.

HAMPDEN RESERVOIR.

This work is in good condition, except repairs on the keeper's house, that was authorized to be done; but excessive proposals, in consequence of the boom in business, made it advisable to defer it until the ensuing year.

PIPE LINES BETWEEN HAMPDEN RESERVOIR AND DRUID LAKE.

The four 30-inch pipe lines have required no repairs, and they are now in good condition. They were excessively flushed in February.

DRUID LAKE.

The water has varied in height from the following causes: when turbid at Hampden, High Service pumps receive their water from the lake; excessive city draw, with the discrepancy of elevation in source of supply, and that of distribution; also, from damages to the embankments by a rain storm of March 9th, which consisted of a slip at the west end of lake, on the inside slope, which required the water down seven feet to repair; another slip on the east bank, in cove, and five slides on the outside slope of the dam, on east bank. There was also fifty feet of 18-inch terra cotta drain pipe in use, for draining the lake; road crushed and filled up the pipe line for a long distance with sand. This accident occurred over the ditch of the 30-inch supply pipe, twenty-two feet deep, near the engine-house. The repair was made with old cast iron pipe taken from Washington street.

On the 6th and 7th of October the lake was down, from excessive city draws, 48½ inches. Following this date, the aid received from the new source of supply from the Gunpowder, which served that section of the city heretofore from Mount Royal Reservoir, obviated the necessity of drawing on Druid Lake, and a rise of a few inches per day followed until the 24th of November, when it reached the maximum level of the lake. The fountain operated 482 hours and 40 minutes.

HIGH SERVICE PUMPING STATION.

The aggregate time of the operations of both sets of pumps was 5,132 hours and 30 minutes, and the aggre-

gate discharge of water into the reservoir was 761,979,361 gallons. There was, as per inventory of January 1, 1881, 368 tons of coal and 9 cords of wood on hand. There was purchased $1144\frac{400}{2240}$ tons of coal; and from falling timber on the city's property at Lake Roland, 16 cords of wood was received.

There were consumed $1229\frac{400}{2240}$ tons of coal, and 16 cords of wood; and as per inventory of January 1, 1882, there are 283 tons of coal and nine cords of wood on hand. This work is in good condition.

The duty of pumps have been as follows:

Consumption of coal in pounds.	Height the water is pumped, in feet.	Gallons of water pumped.	Millions of pounds raised one foot high with 100 lbs. of coal.	Gallons of water pumped with 100 lbs. of coal.	Gallons of water pumped with one pound of coal.	Reduced to a common standard of 100 feet high.	Cost of pumping one million gallons, in dollars and cents.
2,753,360	144	761,979,361	33,196,149	27,674	276.74	39,850	$9 27

HIGH SERVICE RESERVOIR.

There has been the usual grass cutting, and iron railing painted. It would be well to provide against the annoyance of leaves, clogging the screen in the most solid mass imaginable. This occurred three times the past year; otherwise it is in good condition.

STOP HOUSE AND VAULT HOUSE AT DRUID LAKE.

Slight repairs required here—such as overhauling packing boxes and repacking, has been done. It may

be advisable to re-touch up the painting on the machinery. All is in good working condition.

MOUNT ROYAL RESERVOIR.

This reservoir is in good order. The screen-well was painted, and stops in vault-house overhauled. The keeper's house was repaired and painted, and new picket and board fencing erected. All is in good condition.

I respectfully refer you to inventory of city property, which I lay before you, that is located at the different works.

SALES OF MATERIAL TURNED OVER TO REGISTRAR.

For hay at Lake Roland	$181 50
" Hampden	50 00
" Mount Royal	20 00
Old iron, wrought and cast	385 86
Old brass and turnings	178 70
Flag stone	3 00
Oil barrels	4 30
Two old mules, used at Druid Lake	60 00
Old mare, used at Lake Roland	30 00
Lead dross	15 46
Old shovels	2 40
	$931 22

DISPOSAL OF PROPERTY, AND ITS VALUE, FROM LAKE ROLAND.

51½ barrels of corn to Permanent Supply at $3.50.		$180 25
24 " " Druid Lake		84 00
24 " " City stable		84 00
13 " " Lake Roland		45 50
10½ tons of hay, Permanent Supply, at $20		210 00
765 bundles of fodder, Permanent Supply, at 3c.		22 95
5 tons hay, city stable, at $20		100 00
		$726 70

EXPENDITURES OF THE WATER ENGINEER'S DEPARTMENT FROM JANUARY 1, 1881, TO JANUARY 1, 1882.

Permanent Supply Distributing Mains	$37,864 63
Distributing Mains	28,923 36
Lake Roland	17,255 57
Salaries Engineer's Department	9,502 47
Plumbing Department	10,071 07
Pump House	6,864 37
Repairs	5,450 72
Temporary Supply	10,455 54
Water Meters	10,057 18
Druid Lake	4,085 45
Pumps and Fountains	1,855 26
Fire Plugs	2,902 20
High Service Reservoir	92 50
Hampden Reservoir	120 17
Mount Royal Reservoir	379 43
Telephone Line	205 10
Tools and Fixtures	390 95
	$146,475 97

NEW SUPPLIES FROM DECEMBER 31, 1880, TO DECEMBER 31, 1881,

Aggregate	$14,163 50

BILLS DELIVERED TO REGISTRAR FOR WORK AND MATERIAL.

Plumbing Department	$21,634 13
Distributing Main	1,339 86

LEAKS AND REPAIRS.

Number of main leaks	685
" " stops	448
" hydrants and service pipes turned off for leaks	584
" ferrules drawn for leaks	197
" fire plugs repaired	237

ORDERS FROM REGISTRAR.

Supplies stopped for water rent	2,302
" turned on	1,499
Ferrules drawn	88
" returned	87
Persons called upon and promised to pay	460

PUMPS.

Number repaired	64
" removed	13
" wells filled up	5
" new pump	1

METERS IN SERVICE.

$\frac{3}{4}$	inch	179
1	"	165
$1\frac{1}{2}$	"	67
2	"	43
3	"	148
	"	4
		606

PLUGS ERECTED IN 1881.

Lombard and Liberty.
Lombard and Sharp.
Division and Bloome.
Federal and Washington.
Oliver and Washington.
Hoffman and Washington
Fulton and Tennant.
Alice Ann and Eden.
*Caroline and Alice Ann.
Alice Ann and Albemarle.
Alice Ann and Exeter.
Eastern avenue and Burke street.
*Jackson, between Clement and West.
Donaldson and Covington.
Washington and Biddle.
Caroline and Thames.
Caroline and Dock.
Caroline and Lombard.
Lombard and Washington.
Washington and Baltimore.
Orleans and Washington.

*To replace old defective Plugs.

Monument and Washington.
Alice Ann and Luzerne.
Alice Ann and Washington.
Lombard street, No. 3 Engine House.
Dillon and Harris alley.
Sterrett and Sterrett alley.
Number of plugs in the city, 879.

SUMMARY OF STOCK OF MATERIAL ON HAND, AND VALUE OF THE SAME, DECEMBER 31, 1881.

Distributing Main	$7,019 00
Plumbing Department	566 49
Meters	1,223 34
Fire Plugs	880 80
Fountains	713 53
Tools and Fixtures	5,898 80
Permanent Supply Distributing Main	2,162 78
Patterns	3,623 07
	$22,087 81

PUBLIC FOUNTAINS IN THE CITY.

Fell's Point Market House.
Baltimore and Harrison streets.
Light and Conway streets.
Hollins Market.
Lexington and Jasper streets.
Richmond and Garden streets.
Pratt and Gay streets.
Belair market, Gay street.
Pratt street and Centre market.
Pratt and Light streets.

Light and Lee streets.
Hanover market.
Cross street market.
Baltimore and North streets.
Locust Point.
Light street and Fort avenue.
Madison Square.
Charles street and Boundary avenue.
Pratt and South streets.
Fort avenue and Borrough street.
Fremont street and Burgundy alley.
McMechin and Oliver streets.
Aisquith street and Harford avenue.
Light and Winder streets.
Leadenhall and West streets.
Greenmount avenue and Truxton street.

FOUNTAINS FOR MAN AND BEAST.

Eutaw and German streets.
Exchange Place.
Broadway and Thames street.
Canton avenue and Chester street.
Howard and Centre streets.
Fremont and Lombard streets.
Portland and Green streets.
Eutaw and Cross streets.
President street and Eastern avenue.
Light and Poultney streets.
Charles and Lee streets.
Ensor and East streets.
Broadway and Chase streets.

Greenmount avenue and Monument street.
Bond and Jefferson streets.
Pennsylvania avenue and Dolphin street.
Saratoga and Fremont streets.
Oregon and Saratoga streets.
Park avenue and Preston street.
Thames and Caroline streets.
Baltimore and Poppleton streets.
Hollins, Frederick avenue and Fulton street.
Light and Randall streets.
Pennsylvania avenue and Fremont street.
Calvert street and Court House.
Eastern avenue and Chester street.
Eastern avenue and West Falls avenue.
40 Philpot street.
Central avenue and Bank street.
Boston and Elliott streets.
Franklin and Paca streets.
Ridgley and Hamburg streets.
Hill and Sharp streets.
Montgomery and Light streets.
Covington and Hughes streets.
Camden and Eutaw streets.
Hanover and Randall streets.
Monument and Wolfe streets.
Fell and Thames streets.
Central avenue and Pratt street.
Conway and Sharp streets.
Calvert and Centre streets.
Conway and Little Paca streets.
Sterritt and Paca streets.
Scott and Hamburg streets.

Pratt and Poppleton streets.
Central avenue and Biddle streets.
Fayette and Durham streets.
Boundary avenue and Belair avenue.
Block and Point streets.
Stockholm street and Peach alley.
Fayette and Green streets.
*Franklin and Fulton streets.

Respectfully submitted,

JAMES CURRAN.

*Erected in 1881.

STATEMENTS.

TABULAR STATEMENT.

Size and Number of Feet of Pipe, Stop-Cocks and Branches laid in the City.

	1¼ in.	2 in.	3 in.	4 in.	4½ in.	6 in.	8 in	10 in.	12 in.	16 in.	18 in.	20 in.	30 in.	TOTAL OF PIPE.
No. of feet of pipe laid previous to purchase by Water Company.	.....	13,203	95,411	31,876	72,462	60 704	10,040	14,330	12,209	26,168	4,627	8,588	14,203	363,821
Laid by Water Commissioners from July 1, 1855, to Dec. '57.	.....	1 909	14,720	28,362	.....	5 005	613	448	.....	.....	.....	9,716	.....	60,773
By Water Board 1858	.....	2,948	24,438	23.742	.....	8,692	144	.....	.....	.....	.....	.....	.....	59,964
" " 1859	.....	638	22,972	40,367	.. ..	14,503	.....	6,300	108	.....	.....	.....	.....	84,888
" " 1860	.....	.....	20 488	35,106	.....	22,134	.....	7,910	.....	.....	.....	14,889	1,428	101,955
" " 1861	.....	276	8,317	15.432	.....	8,722	.....	5,017	.....	.....	.....	1,080	8,292	47,136
" " 1862	.....	1,140	11,065	6 562	.....	560	.....	.....	.....	490	.....	6,599	51	26,467
" " 1863	....	2,729	12,223	5,696	.....	3,744	.....	4 560	.....	720	1,170	1,314	.....	32,156
" " 1864	1,748	314	20,899	8,362	.....	6 981	.....	13,476	405	1,962	783	1,395	.....	56,325
" " 1865	7 929	796	16,930	11,729	.....	3,204	.....	.....	.....	.....	.....	.....	.....	40,588
" " 1866	2,903	4,413	15,813	10,864	.....	13,048	.....	.....	.....	.....	.....	.....	.....	47,041
" " 1867	1,145	14,252	17,349	8,808	.....	6,491½	.....	9,372	.....	.....	.....	.....	.....	57,417½
" " 1868	1,642	4,475½	20,466½	14.759½	.....	2,012½	.....	.....	.....	.....	.....	.....	.....	43,356
" " 1869	192	4,765	16,595	9,457½	.....	4,037	.....	.....	.....	.....	.....	.....	.....	35,046½
" " 1870	.....	8,502	11,372	10,086	.....	600	.....	.....	.....	.....	.....	.....	.....	31,360

From Jan. 1, to Oct. 31, 1871.....	.....	6,895	11,863	13,205	.....	8,452	.....	.....	.....	.....	.....	.....	.....	40,415
From Oct. 31, 1871, to Oct. 31, 1872.....	78	6,871½	13,660½	12,479	.....	3,425	.....	.....	.....	.....	.....	.....	.....	36,514
From Oct. 31, 1872, to Oct. 31, 1873	.....	4,551	10,677½	8,032½	.....	5,405	.....	2,150	.....	3,400	.....	.....	.....	34,216
From Oct. 31, 1873, to Oct. 31, 1874.....	36	4,402	8,169	10,525	.....	10,959	5,795	8,537½	.....	.....	.....	.....	.....	48,723¼
From Oct. 31, 1874, to Oct 31, 1875	.....	3,542	7,544½	8,837½	.....	11,750	.....	4,362½	.....	.....	.....	11,160	8,959½	56,156
From Oct. 31, 1875, to Oct. 31, 1876.....	.....	1,982½	7,053½	15,383	.....	1,050	.....	3,212½	.....	5,175	....	202½	7,215½	41,274½
From Oct. 31, 1876, to Oct. 31, 1877	.....	1,289	17,246½	15,571½	.....	7,462½	.....	75	137½	.....	.....	.....	.....	41,782
By Water Board 1878	175	1,603	7,567	11,579½	.....	3,000	....	4,800	.....	837½	.....	425	3,312½	33,299½
" " 1879	.....	1,603	4,490	10,876	.....	3,160	.....	2,038½	.....	.....	.....	2,975	.....	25,142½
" " 1880	.....	1,882	5,057½	7,777¾	.....	5,459¼	.....	1,398	.....	.....	.....	.....	.....	21 574½
" " 1881	.....	933	9 034¾	12,290⅛	.....	6,421¾	1,797	3,169¼	.....	.....	.....	.....	.....	33,646¼
	18,848	95,914½	431,422⅛	388,566¼	72,462	226,982½	18,389	91,156¼	12,859½	38,782½	6,580	58,343½	43,461½	1,500,737⅞

TABULAR STATEMENT—Continued.

	1½ inch.	2 inch.	3 inch.	4 inch.	4½ inch.	6 inch.	8 inch.	10 inch.	12 inch.	16 inch.	18 inch.	20 inch.	30 inch.	Stops.
Stop Cocks by Water Company	....	12	61	94	....	55	9	8	8	9	4	8	2	270
" " Commissioners	....	9	8	8	....	2	....	....	....	....	....	2	....	29
By Water Board 1858	....	17	23	14	....	3	1	....	1	16	....	1	....	76
" " 1859	....	15	30	54	....	16	....	7	....	....	....	....	....	122
" " 1860	....	....	18	55	....	36	....	9	....	....	....	4	1	123
" " 1861	....	7	7	24	....	8	....	3	....	....	....	....	5	54
" " 1862	....	21	19	31	....	19	....	1	....	1	....	4	....	96
" " 1863	....	8	20	28	....	2	....	2	....	....	....	1	....	61
" " 1864	....	12	18	15	....	4	....	5	....	....	....	1	....	55
" " 1865	....	24	13	6	....	2	....	....	....	....	....	....	....	45
" " 1866	....	22	24	20	....	4	....	....	....	....	....	....	....	70
" " 1867	....	46	22	5	....	5	....	3	....	....	....	....	....	81
" " 1868	....	7	24	19	....	3	....	....	....	....	....	....	....	53
" " 1869	....	....	7	18	....	3	....	....	....	....	....	....	....	28
" " 1870	....	....	4	7	....	....	....	....	....	....	....	....	....	11
January 1, to October 31, 1871	....	5	11	25	....	5	....	....	....	....	....	....	....	46
October 31, 1871, to October 31, 1872	....	10	20	23	....	3	....	....	....	....	....	....	....	56
" 1872, " 1873	....	7	14	25	....	12	....	2	....	2	....	....	....	62
" 1873, " 1874	....	4	14	52	....	9	6	6	....	....	....	....	....	91
" 1874, " 1875	....	3	5	31	....	10	....	6	....	1	....	6	2	64
" 1875, " 1876	....	1	25	66	....	52	2	....	....	1	....	1	2	150
" 1876, " 1877	....	5	69	50	....	13	....	2	....	....	....	....	....	139
By Water Board 1878	....	7	29	22	....	2	....	6	....	4	....	2	1	73
" " 1879	....	4	15	37	....	6	....	2	....	....	....	....	....	64
" " 1880	....	3	9	24	....	14	....	2	....	....	....	....	2	54
" " 1881	....	4	26	41	....	6	2	2	....	....	....	....	....	81
		253	535	794		294	20	66	9	34	4	30	15	2,054

TABULAR STATEMENT—Concluded.

	1½ inch.	2 inch.	3 inch.	4 inch.	4½ inch.	6 inch.	8 inch.	10 inch.	12 inch.	16 inch.	18 inch.	20 inch.	30 inch.	Branc'es
Branches by Water Board 1858	....	3	78	98	....	33	2	....	....	1	....	....	....	215
" " 1859	....	....	53	134	....	75	....	32	2	....	....	....	....	296
" " 1860	....	....	68	108	....	149	....	29	....	....	....	52	2	408
" " 1861	....	....	26	50	....	33	....	19	....	....	....	6	34	168
" " 1862	....	5	25	30	....	4	....	1	....	....	....	16	....	81
" " 1863	....	3	29	19	....	9	....	7	....	2	1	5	....	75
" " 1864	3	3	40	21	....	9	1	47	....	5	4	4	....	137
" " 1865	20	....	47	26	....	15	....	....	....	....	....	....	....	102
" " 1866	3	....	30	24	....	16	....	....	....	....	....	....	....	73
" " 1867	1	29	40	26	....	7	....	21	....	....	....	....	....	130
" " 1868	1	6	38	43	....	12	....	....	....	....	....	....	....	100
" " 1869	....	5	54	32	....	6	....	2	....	....	....	....	....	99
" " 1870	....	9	27	39	....	1	....	....	....	....	....	....	....	76
January 1, to October 31, 1871	....	6	22	29	....	32	....	....	....	....	....	....	....	89
October 31, 1871, to October 31, 1872	....	3	35	39	....	10	....	....	....	....	....	....	....	87
" 1872, " 1873	....	3	26	23	....	14	....	7	....	5	....	....	....	78
" 1873, " 1874	....	4	17	53	....	16	22	30	....	1	....	....	....	143
" 1874, " 1875	....	5	14	26	....	5	....	13	....	1	....	29	8	101
" 1875, " 1876	....	4	21	90	....	12	....	14	....	21	....	....	9	171
" 1876, " 1877	....	2	45	45	....	33	1	3	....	....	....	....	....	119
By Water Board 1878	....	4	20	36	....	8	....	....	....	9	....	3	4	84
" " 1879	....	2	14	41	....	6	....	5	....	....	....	....	....	68
" " 1880	....	....	9	35	....	17	....	11	....	....	....	5	....	77
" " 1881	....	3	20	54	....	11	5	7	....	....	....	....	....	100
	28	90	804	1,115		523	31	248	2	45	5	120	57	3,077

Whole length of Pipe Line in the City, December 31, 1880..... 274⅛ *Miles*, 531½ *Feet*.
Pipe Line in the City, from January 1, to December 31, 1881..... 6 " 966½ "
Whole length of Pipe Line in the City, December 31, 1881..... 284 " 217⅜ "
Net Cost of Pipe to date.....$1,867,833 31

Location, Size, Number of Feet and Cost of Distributing Main, Laid from January 1, 1881, to December 31, 1881.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
Montgomery	Covington and Jackson	3	294	$143 85
Boundary avenue	Park avenue and John	6	556	455 04
Lexington	Pearl and Arch	3	20	132 25
		4	158 1/6	
Mount	Harlem and Edmondson avenues	4	206 10/12	126 51
Little Green	Paca and Elbow lane	3	122 1/2	76 56
10-foot alley, rear John	Lovegrove alley and St. Paul	3	85 3/4	53 05
10-foot alley, rear Charles	John and Biddle	3	110 1/4	56 10
John	Morton alley and Charles	6	50	68 66
Division	Laurens and Roberts	4	407 7/12	264 61
Division	Bloome and Gold	4	219	157 00
Woodyear alley	Cumberland and Baker, and			
10-foot alley, rear Cumberland	Calhoun and Woodyear alley	3	269 1/2	142 03
Calhoun alley	Pratt and Camden	3	61 1/4	55 20
Rope-walk alley	Charles and Light	3	110 1/4	88 70
		6	25	
Lanvale	Foster alley and John	6	387 1/2	310 85
Rutter alley	Dolphin and Lanvale	4	91 1/6	87 56

Lemon alley	Goldsmith alley and Pulaski	2	180	73	70
Montrose	Stricker and Gilmor	3	197 1/3	95	67
Vine	Stricker and Gilmor	3	246 2/3	107	38
10-foot alley, rear William	Ostend and Gittings	3	172 2/3	64	63
10-foot alley, rear Druid Hill avenue	Presstman and Bloome	4	160 1/3	76	64
Bloome	Division and Druid Hill avenue	4	135 2/3	72	84
Rear Lanvale	Foster alley and John	3	172 2/3	86	14
Vincent alley	Baker and Presbury	4	37	20	08
10-foot alley, rear Wolfe	Madison and Chew	3	49 1/3	19	79
10-foot alley, rear Chase	Ann and McDonough	3	123 1/3	52	20
10-foot alley, rear of Clarkson	Heath and Randall	3	135 2/3	48	57
Tennant	Fulton and Mount, and	4	148		
12-foot alley, rear Fulton	Tennant and Winchester	3	111	117	39
10-foot alley, rear Warner	West and Stockholm	3	185	67	05
Park avenue	Howard and Biddle	4	189		
Fulton alley	Tyson street and Tyson alley	3	382 1/3	324	48
Park avenue	Richmond and Tyson streets	3	86 1/3		
Rear Edmondson avenue	Vincent alley and Fulton	3	246 2/3	86	54
Rear Druid Hill avenue	Bloome and Gold	4	246 2/3	98	22
Gist	McElderry and Jefferson	3	111	49	19
10-foot alley, rear Carey	Lanvale and Harlem avenues	3 4	37 12 1/3	27	99
10-foot alley, rear Hudson	Curley and Patuxent	3	70 2/3	37	44
Jackson	Fort avenue and West	4	999	495	04
Lexington	Schroeder and Republican	6	246 2/3	186	89

Location, Size, Number of Feet and Cost of Distributing Main, Laid from January 1, 1881, to December 31, 1881.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
Hollingsworth	Pratt and Balderston	3	123 1/3	$59 53
Rear Hanover	Randall and Heath	3	98 2/3	39 64
Shields alley	Lanvale and Townsend	3	111	49 77
Rear Washington	Baltimore and Hampstead	2	14	58 42
		3	123 1/3	
Donaldson	McComas and Jephson	4	826 1/3	399 87
Canton	Dillon and Hudson	4	123 1/3	63 89
Luzerne	Aliceanna and Lancaster	3	111	48 37
Norris alley	Franklin and Cairo	2	7	36 76
		3	18	
Charles	Ostend and Rope-walk alley	6	148	106 68
Burke	Jefferson and McElderry, and			
10-foot alley, rear Jefferson	Burke and Cannon	3	407	149 66
Cowpen alley	Eutaw and Howard	3	5 1/3	398 41
		4	12 1/3	
		6	357 2/3	
Valley	Chase and Eager	3	222	87 10
Peaha alley	Stockholm and Ostend	3	111	38 55

Weber	Light and William	2	42	18 34
Poultney	Light and James alley	3	49⅓	19 25
Rear John	McMechen and Boundary avenue	3	345⅓	141 71
Pierce	Poppleton and Schroeder	3	12⅓	52 51
		2	119	
Rear McDonough	Eager and Chase	3	373⅓	136 76
	Calverton road	2	27	676 32
		4	1,332	
Dallas	Baltimore and Hampstead	2	98	40 11
Hargrove alley	Chase and Eager	3	5	367 79
		4	5	
		6	493⅓	
Rutter alley	Lanvale and Townsend	3	309⅔	212 36
		4	271⅓	
20-foot alley, rear Biddle	Wolfe and Ann, and	4	2	88 66
10-foot alley, rear Ann	Biddle and Gay	3	2	
		2	259	
Calhoun	Mosher and Tennant	4	86⅓	48 60
Druid Hill avenue	North avenue and Bloome	4	777	383 78
Webster	Fort avenue and Randall	2	7	184 33
		3	357⅔	
Mankin	North avenue and St. Paul	4	135⅔	481 98
		4	845⅔	
Barney	Hanover and Charles	4	98⅔	61 10
Heath	Hanover and Charles	4	123⅓	74 76
Lombard	Hanover and Sharp	6	167⅔	127 67

Location, Size, Number of Feet and Cost of Distributing Main, Laid from January 1, 1881, to December 31, 1881.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
Rear Boundary avenue	North and Barchay	4	111	$57 49
10-foot alley, rear Haubert	Beason and Marriott	2	31	11 48
Forrest	Gay and Ensor	3	40	20 37
Wilmer alley	Dolphin and Lanvale	3	20	17 91
10-foot alley, rear John	Dolphin and Lanvale	3	148	145 46
10-foot alley, rear Lanvale	John and Rutter alley	3	172 33/36	
Rutter alley	Dolphin and Lanvale	4	61 33/36	
10-foot alley, rear Chase	Valley and McKim	3	209 30/36	117 16
10-foot alley, rear Hillman	Eager and Chase	3	86 1/3	
Rutter alley	Townsend and Mosher	4	281 33/36	123 02
10-foot alley, rear Edmondson avenue	Fulton and Mount	2	7	51 52
		3	111	
Castle	Fayette and Hampstead	4	18	88 26
Bohemian court	Chester and Washington	3	172 33/36	
Goodman alley	Fort avenue and Randall	3	61 33/36	27 61
10-foot alley, rear West	McCabe and William	2	70	39 29
Liberty	Lombard and German	10	345	486 27
10-foot alley, rear Dolphin	John and Rutter alley	3	160	68 56

Tennant	Gilmor and Vincent alley	4	197 1/3	208 45
Vincent alley	Tennant and Mosher	3	246 2/3	
Rear Calvert	Lanvale and Townsend	4	209 2/3	112 75
Clinton	O'Donnell and Dillon	6	123 1/3	120 06
Canton avenue	Gist and Essex	3	148	103 88
Harris alley	Hudson and Dillon	3	209 2/3	254 69
Harris alley	Dillon and O'Donnell	4	345 1/3	
Hunter alley	Chase and Biddle	6	444	388 18
Biddle	Calvert and Hunter alley	6	74	
10-foot alley, rear Chapel	Chase and Eager	4	37	35 59
Centre	Charles and Cathedral	6	320 2/3	262 98
Vincent alley	Mosher and Tennant	3	391 2/3	161 72
Biddle	Aisquith and Valley	4	118 1/3	74 44
10-foot alley, rear Chew	Bond and Broadway	3	98 2/3	42 04
Monument	Forrest and Constitution	3	24 2/3	100 36
		4	123 1/3	
Sterrett	Iceland and Sterrett alley	4	320 2/3	
St. Peter	Dawson alley and Paca	3	271 1/3	366 68
Sterrett	Paca and Sterrett alley	3	148	
10-foot alley, near Washington	Eager and Chase	4	135 2/3	124 41
Eager	Washington and Chapel	4	111	
Harmony lane	Republican and Oregon	2	63	26 86

Location, Size, Number of Feet and Cost of Distributing Main, Laid from January 1, 1881, to December 31, 1881.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
Caroline	From Bank to Thames, and along Thames to Bond	10	2,824½	6,683 05
Aliceanna	Caroline and President	8	1,797	
		12	9	
Eden	Aliceanna and Lancaster	3	74	
		4	827	
	House of Refuge	3	6	3,096 66
		4	1,843	
		6	3,028	

New Supplies for the year ending December 31, 1881.

352	Dwellings	at $5 00...	$1,760 00	
304	"	" 7 50...	2,280 00	
312	"	" 9 00 ..	2,808 00	
160	"	" 12 00...	1,920 00	
26	"	" 14 00...	364 00	
10	Warehouses	" 6 00...	60 00	
8	"	" 8 00...	64 00	
42	"	" 10 00...	420 00	
1214				$9,676 00
472	Baths	at $2 00 ..	$944 00	
443	Water Closets	" 2 00...	886 00	
225	Hose	" 3 00...	675 00	
281	Horses	" 1 50...	421 50	
126	Carriages	" 1 50...	189 00	
13	Urinals	" 1 50...	19 50	
26	Cows	" 1 00...	26 00	
2800				$3,161 00
8	Bars	at $3 00...	$24 00	
12	"	" 5 00...	60 00	
4	Drugs	" 3 00...	12 00	
7	Barbers	" 3 00...	21 00	
2	Bakeries	" 3 00...	6 00	
7	Churches	" 10 00...	70 00	
1	School	" 10 00...	10 00	
1	Special	" 25 00...	25 00	
	Amounts carried forward...		$228 00	$12,837 00

	Amounts brought forward...		$228 00	$12,837 00
1	Oyster Packer	at $5 00 ..	5 00	
1	" "	" 20 00...	20 00	
1	Butchery	" 5 00...	5 00	
2	Butcheries	" 10 00...	20 00	
5	Forges	" 2 50 ..	12 50	
1	Fountain	" 5 00...	5 00	
1	"	" 10 00...	10 00	
1	Cooper	" 5 00...	5 00	
2	Coopers	" 10 00...	20 00	
1	Factory	" 5 00...	5 00	
1	"	" 10 00...	10 00	
2	Soda Fountains	" 5 00 ..	10 00	
1	Foundry	" 10 00...	10 00	
1	Filter	" 5 00...	5 00	
1	"	" 10 00...	10 00	
2	Errich Pumps	" 6 00...	12 00	
1	Green-house	" 2 50...	2 50	
1	"	" 10 00...	10 00	
1	Tripe-boiling	" 5 00...	5 00	
1	Bottling	" 10 00...	10 00	
1	Public Bath	" 10 00 ..	10 00	
1	Moter	" 5 00...	5 00	
1	"	" 25 00...	25 00	
1	Dyeing	" 5 00...	5 00	
28	Boarders	" 50...	14 00	
1	Boiler, 2 H. P.,	" 10 00...	10 00	
1	" 2½ "	" 12 50...	12 50	
5	" 4 "	" 20 00...	100 00	
1	" 5 "	" 25 00...	25 00	
	Amounts carried forward...		$626 50	$12,837 00

	Amounts brought forward ..						$626 50	$12,837 00
5	Boilers,	6	H. P.,	at	$30	00...	150 00	
3	"	8	"	"	40	00...	120 00	
1	"	10	"	"	50	00...	50 00	
1	"	13	"	"	65	00...	65 00	
1	"	15	"	"	75	00...	75 00	
1	"	22	"	"	110	00...	110 00	
1	"	26	"	"	130	00...	130 00	
								$1,326 50
2923								
Producing a yearly revenue of...								$14,163 50

Respectfully submitted,

JAMES CURRAN.

REPORT

OF THE

CIVIL ENGINEER

FOR 1881.

REPORT.

OFFICE OF THE CIVIL ENGINEER—CITY HALL.

Baltimore, January 2, 1882.

To the Honorable the President and
Members of the Water Board:

GENTLEMEN:

The report of the work under the supervision of the Civil Engineer's Department, during the year 1881, is herewith submitted for your consideration.

GUNPOWDER PERMANENT SUPPLY.

The water supply from the Great Falls of the Gunpowder, which has been under construction since December, 1875, and designated the "Permanent Supply," embraces the following pieces of work, viz: Lock Raven, the storage lake in the bed of the Gunpowder Falls; the tunnel or conduit line from the dam to the receiving reservoir; Lake Montebello, the receiving reservoir; Lake Clifton, a storage reservoir, and the 40-inch pipe mains from Lake Clifton to the city limits.

What was done upon these several pieces of work during the past year, is herewith presented.

LOCH RAVEN.

This storage lake is situated in the bed of the Gunpowder Falls, and is formed by the erection of a stone dam, near Mine Bank Run, of heavy rubble and cut masonry, across the Falls near that point.

The surface of water of Loch Raven, when full, is 170 feet above tide.

The area flooded by water is 252 acres.

Its capacity is 510 millions of gallons, and its depth varies from 4 to 20 feet.

Its length is $4\frac{3}{4}$ miles, and its width varies from 100 to 800 feet.

The land on either side of the Loch, for the greater portion of its length, is rocky and precipitous, and generally well timbered.

Loch Raven was virtually completed in 1880. During the past year some little work was done, such as repairing and riprapping with stone, a levee bank at the upper end of the Loch, that had been washed away by a freshet last spring.

The waste gates at the Dam were closed September 23, 1881, and on October 5, the waters of the Gunpowder Falls passed over the over-fall of the Dam.

During the year there was expended upon Loch Raven $7,255.23.

THE DAM.

At the close of the season of 1881, the Dam was completed on both sides, and the centre gap, from the sur-

face of water of the stream to the crest line, on top of the dam, was unfinished.

The gate-chambers were completed, and all the iron gates and connections were in position. The daily flow of the Gunpowder was passed through the waste gates, except during freshets or unusual rises of the stream, when the water flowed through the centre gap of the Dam.

The laying of the masonry in this centre gap, together with some few perches of the stone floor of the gate-chambers, is what was done during the past year.

On the 6th of October, the last stone, in connection with the contract for building the Dam, was laid.

The core of the Dam is built of heavy rubble masonry, laid in hydraulic cement, in the most careful and best possible manner.

The stones composing the over-fall of the Dam are of Baltimore county white marble, 4 feet long, 2 feet wide, and 3 feet deep. All foundations of the Dam proper, the wings and the gate-chambers, are not only laid upon bed rock, but are also well sunk into the same.

And the white marble stones composing the over-fall of the Dam, besides being laid like the ring stones of an arch, are also heeled or built against the bed rock at the foot of the Dam.

The thickness of masonry at the foundation is 62 feet. The depth of the foundation, below the original surface, is 13 feet.

The width of the overfall is 300 feet.

The wings extend into the hill, on each side, 256 feet. The height, from the extreme foundation to the overflow, is 29 feet.

The wings on each side are ten feet above the crest of the Dam.

There is a filling of earth on the inside, 45 feet thick at the base; and just back of the masonry is a puddle-core, two feet thick, extending the whole length of the Dam, from the bed-rock to the top.

The interior of the gate-chambers are built of white marble, smoothe-cut masonry; the exterior of blue stone, rock ashlar face, and the centre of heavy rubble work, well laid in hydraulic cement and grouted. There was expended upon the Dam in 1881, in finishing the work, $28,369.64. There has been built a white marble gate-house, over the gate-chambers at the Dam, during the year, at a cost of $12,057.32.

THE TUNNEL OR CONDUIT LINE

Was completed in November, 1880, and a full report made upon its construction last year. There has been no work done upon the line since, except the cleaning up of that portion next to the Dam.

The material and debris that had accumulated during the construction of the first mile of the tunnel, instead of being taken up shafts Nos. 1 and 2, was taken out through the gate-chambers at the Dam, being less expensive. The cost of this cleaning up, for the year 1881, was $2,174.42.

The whole length of the tunnel was inspected on the 29th of June, 1881. I found the entire line in excellent condition, both where it had been arched and where it was cut through the solid rock.

Since the 1st of July, 1881, when the first water was admitted, the tunnel has had passing through it the waters of the Gunpowder. For a considerable portion of this time, it has been worked under a head of seven feet at the lower end, and all that was expected of it has been satisfactorily realized.

The springs of water that were met with during its construction, and which gave so much trouble, as well as adding to the cost, begin now to be of use in keeping up the city supply, whenever the flow from Loch Raven is stopped on account of the turbid condition of the water.

LAKE MONTEBELLO.

The receiving reservoir of the supply, from the Gunpowder, was completed in 1880, that is, all of the heavy work in its construction was finished.

During the past year there has been a considerable amount of work done at Lake Montebello. The inside slopes of the lake, at several points, had to be graded and made ready for the water. The riprapping was unfinished in places, and had to be completed.

Above the riprapping is a grass slope, which required to be soiled, and this was but partly completed in 1880. In several places the exterior slopes, both in excavation and embankment, that had been left in a rough and

unsightly condition, have been covered with soil and sowed in grass.

The underground drainage around the lake has been laid, and the surface water of the road-way around the lake, and also the flowage towards the lake from the hills on either side, has been diverted into Herring Run.

A copper screen, through which all the water that goes to the city has to pass, has been placed in position in the gate-house, and also wooden clappers placed behind twelve of the iron gates in the gate-house.

The amount expended upon Lake Montebello and at the gate-house, in 1881, was $27,238.53.

The tunnels connected with Lake Montebello have been repeatedly inspected. The one leading from Lake Montebello to the gate-chambers at Lake Clifton, was examined by myself the day previous to the introduction of the Gunpowder water into the city. On all occasions these tunnels were found to be in excellent condition.

The water in Lake Montebello reached its full height, 163 feet above tide, on the 29th of September, 1881. It has been kept at this height since, except when the gates at Loch Raven were closed on account of cloudy water. The flow from the Gunpowder being thus interrupted, therefore the height of water in the lake has, necessarily, decreased in keeping up the supply to the city.

What remains to be done at Lake Montebello is the graveling of the carriage drive around the Lake; the erecting of an iron railing around the same; the put-

ting in of a floor, and the placing of a railing around the gate-chambers in the gate-house.

When this is done, Lake Montebello will become as attractive as Druid Lake.

LAKE CLIFTON.

On account of the advanced state of the work on the line of the Gunpowder Supply, it became apparent that if an early introduction of the waters of the Gunpowder were to be availed of, it would be necessary to push forward to completion such work at Lake Clifton as would be required, in order to convey the water into the city, whenever the upper portions of the Gunpowder Supply were completed. Consequently, only such work was undertaken at Lake Clifton as could be finished in time, and all work upon the Lake proper ceased in 1880.

Last year, and the year previous, only the conduit from the southern end of the Clifton tunnel to the gate-chambers, at the lake, the gate-chambers and the 40-inch mains leading from the same to the city limits, were undertaken.

The year 1880 closed with the conduit and the excavation for the gate-chambers completed; the masonry in the excavation commenced, and the 40-inch mains with but few laid.

It, therefore, became evident, if the water was to be introduced before the close of the year 1881, considerable energy must be exerted to accomplish the end.

By diligence and perseverance, and by working oftentimes at night, the object was attained, and on the 28th

of September, 1881, the first water from the Gunpowder, by natural flow, passed into the city.

The gate-chambers, iron flumes and all the gates at Lake Clifton are completed, and a temporary wooden shed has been erected over the gate-chambers to protect the iron work from the weather.

The completion of Lake Clifton is of the greatest importance to the perfect working of the Gunpowder Supply. With this Lake completed, we will have 265 millions gallons more storage, and which will be wanted in a very short time.

We can clean out the tunnel between Lake Montebello and Lake Clifton without interferring with the city supply, but unless this Lake is built it cannot be done.

If anything should get wrong with this tunnel, nothing can be done to it unless we have Lake Clifton to fall back on; and, likewise, if anything should get wrong with Lake Montebello, and that the water has to be drawn off, we are then dependent upon the direct flow from the Gunpowder, and with the chances of its being muddy.

Conduits and reservoirs often have something the matter with them that must be remedied, and especially when they are new.

Means should be provided whereby the work on Lake Clifton, now unfinished, should be prosecuted to completion as soon as possible.

PIPE MAINS.

There has been laid from the gate-chambers at Lake Clifton, six lines of 40-inch pipes. Two lines have been brought into the city and connected with the pipe system of the department. One line stops at the city limits. The three remaining lines stop 650 feet from the gate-chambers. As the wants of the city demand it, these lines will be brought into use.

In conclusion, I refer with pleasure to the efficiency of the engineers and inspectors on the line, and to the willingness shown by the contractors to comply with the terms of their several articles of agreement.

Respectfully submitted,

ROBERT K. MARTIN,
Chief Engineer.

APPENDIX

TO THE

Report of the Civil Engineer.

AN ACCOUNT

OF THE

WATER SUPPLY OF THE CITY OF BALTIMORE.

At the November Session of the Legislature of Maryland, in the year 1792, an Act was passed, "supplementary to an Act entitled an Act to erect and establish an Insurance Fire Company in Baltimore county, and for other purposes."

The 9th section of this Act provided, that the directors of the insurance company might cause a subscription to be opened, divided into shares, for the purpose of supplying the town with water; the subscribers to be a body corporate, under the name of "The Baltimore Water Company," which was to have the right to agree with parties for the use of the water supplied by the company.

Nothing seems to have come out of this, however; nor was anything done until the yellow fever of 1800 aroused the public to the necessity of supplying the city with other water than that which the springs and wells afforded; and in 1800 an Act of the Legislature was passed, chapter 77, to enable the Mayor and City Council of Baltimore to introduce water into the city."

The newspapers of that day shew the interest felt by the community in the subject; but that was all, for the

object seems to have been regarded as beyond the pecuniary ability of Baltimore, which had by that time grown to be "a city," to accomplish; nor was it until February, 1803, when Mr. Calhoun, the then Mayor, called the attention of the Councils to the matter, that an ordinance was passed creating a board of twelve commissioners, with ample authority to introduce into the city a supply of "pure and wholesome water." These commissioners, eager and zealous, collected the numerous springs from the head of Carroll's run, and were proceeding to introduce the water into the city by pipes, when they were stopped by injunction at the instance of property holders through whose land the pipes were intended to pass. Whereupon the whole subject halted, and 1803 passed without anything effectual being done.

In his next message, the Mayor referred to the failure, and told the Councils, who seemed by this time to have become discouraged, that "whether it would be possible for them to adopt any measure that would answer the purpose, it would be for them to decide." The responsibility being thus thrown on the two branches, they authorized the Mayor to receive proposals at his office until June 4th, 1804, for introducing "a copious and permanent supply of water into the city by an individual or company," and an advertisement was published to this effect.

The city government having shown its inability to meet the emergency, the citizens themselves took the matter in hand, and a public meeting was called for the 20th April, 1804, "to devise some scheme to relieve the

city from the unpleasant dilemma in which it was placed."

At this meeting, which seems to have been numerously attended, Gen'l Samuel Smith was made chairman, and it was determined that a joint stock company should be raised to supply the city with water; and a committee, consisting of Samuel Smith, William Cooke, Elias Ellicott, Rob't Goodloe Harper, Thos. McElderry, Alexander McKim and John Eager Howard, all of them distinguished men, was appointed to prepare articles of association. These were reported at an adjourned meeting, held May 1st, 1804, when William Cooke, Alexander McKim, Robert Goodloe Harper, George Grendy and Thomas McElderry were appointed commissioners to open books and receive subscriptions to the stock.

Thus far all this was plain sailing; but it was found to be very difficult indeed to obtain subscriptions. The commissioners worked assiduously, and would have fared in the work no better than the Councils, had not the insurance companies and other public institutions came forward to subscribe. Thus only was the list of subscriptions filled.

A board of directors was elected on the 24th May, 1804. Mr. Jonathan Ellicott was employed as surveyor and engineer; levels of the different streams around Baltimore were obtained, and finally Jones' Falls was selected as affording the greatest advantages.

Even at this early day the idea of supplying the city from the natural flow was suggested, and proposals were made to purchase all the water rights on the stream as

high up as White Hill mill, with the intention of conducting the water to the elevated ground near "the old poor house," where a large reservoir was to be formed to supply the city; and that the surplus water might not be wasted, it was proposed to use it for milling purposes by erecting a range of mills, to use it in succession, one below the other, on Centre street to tide. The fear of not obtaining the funds necessary to accomplish so large a scheme was one of the principal causes why this was not then carried into effect. Gwynn's Falls was in those days competent to the occasion; and even after the increase in the population of Baltimore which the next fifty years witnessed, it was not deemed unworthy, in 1854, of careful and critical consideration.

Jones' Falls being the preferred stream, the efforts of the company, which had by that time become incorporated, were finally devoted to that stream, and in the fall of 1806, a purchase was made of the necessary site, and the company, under the direction of Mr. John Davis, commenced erecting the works on the lot now occupied by the office of the Northern Central Railway Company on Calvert street. They consisted of a wheel and pumps, that forced the water to a reservoir on the southwest corner of Cathedral and Franklin streets.

The water required by the managers was obtained from a canal, which was nothing more than a common mill race, from Keller's dam, which supplied Salisbury mill, and which still exists, near the site of the old Belvidere-street bridge—a canal, the banks of which, it may be said, in passing, afforded the fashionable promenade of the city for many successive years.

The papers of 1805 were filled with eulogies of Mr. Davis, for the "simple and economical plan that he devised, compared with the expensive and complicated one adopted by the city of Philadelphia."

The iron pipes first laid by the water company were imported from England, and were of the conical or tapering joint, long since supplemented by the home made article, with the parallel joint.

By the fall of 1805 the company found themselves in a condition to ascertain whether "the corporation of the city will require any, and what quantity of water, to be delivered for the public use for extinguishing fires, that pipes may be prepared and laid adequate to the demand," the company offering to furnish the necessary fire-plugs, "at the rate of ten dollars per annum for each."

At a special meeting of the Councils, called to consider this offer, it was accepted. By a subsequent agreement the city undertook to construct the fire-plugs at its own expense.

The report of the committee to whom the subject had been referred, recommended an application to the Legislature for a supplement to the charter, authorizing the Mayor and City Council to purchase the whole or any part of the stock of the water company.

Nothing was done however in regard to such a purchase, and the company went on improving its means of supplying the city with water. It erected a new pump-house (lately known as the Pearl Hominy Mill, recently destroyed by fire) and built a reservoir on the high

ground on Chase street. In the report of the Joint Standing Committee of the Councils on Water, the pump-house and reservoir are fully described. Both appear to have been excellent and in admirable order. In addition to this, the company constructed the Mount Royal reservoir, which occupied the site, in part, of the present central railroad station on North Charles street, and was supplied with water, by natural flow, from the dam of the Lanvale cotton factory, and was used for the wants of the lower portion of the city.

The city, however, was growing all this time, and on the 11th May, 1852, the City Councils authorized the appointment of Water Commissioners, "to inquire into and report upon the present mode of supplying the city with water, and its expense as compared with that of other cities, the quantity and quality of such supply and the propriety and practicability of obtaining it from some other source."

The commissioners appointed were Joshua Vansant, James Murray, John W. Randolph, John King, J. J. Turner and Ross Winans, by whose intelligent investigation the whole subject was spread before the public. The result was a conviction that the supply of the city with water ought not to be left in the hands of a private corporation, no matter how excellent its management, but should be in charge of and subject to the control of the city government. Nor was there any difficulty on the part of the water company; on the contrary, the company had again and again proposed to sell to the city, and place the whole subject in the hands to which it properly belonged.

To this end authority was obtained from the Legislature by an Act passed at January Session, 1853, to issue bonds to the amount of $1,350,000, for the purchase of the water company's property; and subsequently, an ordinance authorized the purchase from the Baltimore Water Company for that sum, of certain of its corporate rights, privileges and franchises, and all the property, whether real, personal or mixed, comprised or intended to be, within the terms of the proposal of sale, made by the president in his communication bearing date December 1st, 1852, addressed to Joshua Vansant, then chairman of the water commissioners. The same ordinance provided for the conveyance to the city of all the property of the water company in Baltimore county, except the Eagle works; also, all property within the city conveyed to the company by the President and Directors of the Union Bank of Maryland, Alexander B. Gordon and others, and Alexander McDonald and Nicholas G. Ridgely, co-partners, and all which had been previously conveyed to the Susquehanna Railway Company, and all property lying eastwardly of the northwesternmost side of Belvidere street, derived from Christian Heller and others. The future purchase of the Eagle works was provided for in the same ordinance.

The report of the Joint Standing Committee on Water, made to the First Branch, enumerates in minute detail all the property thus proposed to be conveyed; and, upon the execution of the deeds embracing it, the city found itself in the place of the old Baltimore Water Company to all intents and purposes.

When the water works came into the hands of the city, several sources of an improved supply were suggested—the Patapsco, Gwynn's Falls and the Gunpowder, as well as Jones' Falls; and the discussion waxed warm as to their respective merits. There was a majority report and a minority report—the first in favor of the Gunpowder, the other in favor of "the Falls." The contest was a close one, but ended in the adoption of the latter; and it has been to this source that the city has been indebted for its water supply up to the present time, with occasional aid from the Gunpowder, presently to be noted.

In 1858, the Mayor and City Council had appointed a Water Board, of which the Mayor was ex-officio a member and chairman. The entire control of the water supply has since been in its hands. By the terms of the ordinance creating it, it is required to mature and decide upon all plans, both with regard to the general policy and the existing system, and the procurement of an increased supply from Jones' Falls, which plans were to be submitted to the Councils. The ordinance is a very full one, presenting in much detail the organization and duties of the board and its several officers.

JONES' FALLS.

The waters of Jones' Falls are collected in a reservoir, now called Lake Roland, formed by a dam across the ravine of the stream, two hundred and twenty-five feet above tide, seven miles from the city, from which the water is conducted through a brick arched elliptical tunnel, four miles long, and averaging five feet in diam-

eter, to a semi-circular reservoir, containing 400 millions of gallons, not far from the city limits, on the east side of "the Falls." It is thence brought through four thirty-inch mains, under the bed of the Falls, to Druid Lake on the West side, two hundred and seventeen feet above tide, covering fifty-three acres, and containing 429 millions of gallons, from which it is distributed through the city. In connection with Druid Lake is a high-service reservoir, three hundred and fifty feet above tide, of four acres, containing 26 millions of gallons for the supply of the higher portions of the city. Into this the water is pumped, at the rate now of about 6 millions of gallons in the twenty-four hours. Prior to the construction of Druid Lake, the water from Hampden reservoir had been conducted into a circular distributing reservoir, known as the Mount Royal reservoir, on the northern boundary of the city, 150 feet above tide, and containing 30 millions of gallons. Both Druid Lake and the Mount Royal reservoir are within the limits of Druid Hill Park.

The most important of these works is certainly Druid Lake, which was commenced on the 7th March, 1864; and the report of the manner of its construction, dated January 1st, 1868, furnishes not only an assurance of the safety of the great body of water to be retained in position so near the city, but is in itself an instructive lesson in this branch of hydraulic engineering, reflecting the highest credit on its author, Mr. Robert K. Martin, the engineer by whom the Gunpowder improvement has been conducted to so satisfactory a conclusion.

Notwithstanding the confident assertions of the friends of Jones' Falls in the contest that has already been re-

ferred to, that there would be no want of water at any time if their favored scheme was adopted, it became apparent, when a severe drought came in 1872, that unless the Gunpowder was resorted to, Baltimore ran the risk of a water famine in every hot summer; and accordingly, on the 23d December, 1872, an ordinance was passed, providing for a temporary supply from the rejected stream. This was obtained, and in April, 1874, an engine and two pumps at Meredith's ford forced over the dividing ridge between the Gunpowder and Jones' Falls, into the channel of Roland run, a tributary to Jones' Falls above Lake Roland, 5 millions of gallons each in twenty-four hours. It is this that has hitherto averted a calamity that would never have been threatened had the Gunpowder been resorted to in the first instance. The cost of the temporary supply was $603,091.11, which, it is worthy of remark, was within the estimate on which the work was undertaken, and which had been $700,000. On the principle that all things turn out for the best, the error of those who preferred Jones' Falls to the Gunpowder has resulted in supplying Baltimore with water from two sources more amply than any city in the United States, and sufficient to guard it from any water famine hereafter.

Having thus stated what has been done at different times since 1792 in obtaining a supply of pure water from Jones' Falls, it is now proposed to state in the same manner what has taken place in regard to the supply from the Gunpowder.

THE GUNPOWDER.

On the 12th February, 1874, an ordinance was passed authorizing the issue of the bonds of the city to the

amount of $4,000,000, to complete the Gunpowder water supply; and on the 1st of April, 1874, the Legislature gave it efficiency by an enabling Act of that date, which was submitted to the people and adopted by a vote of 14,120 to 6,127.

In March, 1854, Alfred Duvall, Civil Engineer, made a survey and reported to the Mayor and City Council, first suggesting the introduction of water from the Gunpowder by natural flow.

During the year 1854, T. E. Sickles, Civil Engineer, made extensive surveys, and reported to the Mayor and City Council a plan for an air-line tunnel to convey the waters of the Gunpowder to the city.

Mr. Duvall was examined before the Joint Standing Committee on Water, January 30th, 1855, and it is nothing more than justice to him to quote a portion of his testimony. After referring to the engineering features connected with the supply from Jones' Falls and the Gunpowder, respectively, he says, that "he had expended considerable time and money in making surveys, &c., relative to a supply of water for our city. He had not been influenced by any person or parties relative to the same, or received any compensation directly or indirectly from any source for what he had done.

"In January, 1854, after an absence of two years, he returned to his native city, and expected to have found it engaged in constructing works for a supply of water, by natural flow, from the Gunpowder river, but finding the plan recommended for a supply from said river was by pumping, he was not surprised that such work had not been undertaken, as he considered such plan had but little to recommend it. After reading the reports

of various engineers relative to a supply of water for the city of Baltimore, he felt satisfied the most practicable, permanent, and by far the most economical plan of furnishing our city with an abundant supply of water, had been overlooked.

"Having a measureably correct knowledge of the topography of the country for some distance around Baltimore, and of the flow of the various streams near the city, and their elevations above tide at given points, he was well satisfied that a supply of water for Baltimore could be more economically had from the Gunpowder river, from an elevation of some 180 feet above tide, by natural flow through tunnel, than by any other possible plan—an opinion he had entertained for twenty years.

"Considering all the plans proposed for a supply of water to our city up to the time he refers to, (viz: January, '54,) objectionable, expensive and inefficient, he was induced to make surveys, etc., at his individual expense, to show to the citizens of Baltimore the most practicable and economical plan of procuring an unfailing and abundant supply of water. The result of his labors are known to your Honorable committee.

"The motives that have induced him to make the expenditures he has made, relative to the subject matter, have been honorable. If the plan he has originated for a supply of water for our city has merit, (which he believes is generally admitted,) and is or will be of benefit to the city of Baltimore, it will be to him a gratification (if he has no other reward) to know that he has contributed to the interest of a city that he is proud to be a citizen of. He has originated and defined a general plan for supplying our city with water, which, if carried out, surpasses in the magnitude of its benefits, and is

more economical in its construction, considering the supply, than any water works in the world, and believes such general plan will eventually be carried out, and that posterity at least will give him credit for what he has done."

It is so rare to find an individual taking the trouble and going to the expense involved in what was done by Mr. Duvall, from what may truly be said to have been patriotic motives, that when the public are enjoying the benefit of the plan that he was not only the first to conceive but the first to demononstrate, at his own cost, the least that can be done is to recognize, even at so late a day, his merit and work, even when it is too late for him to profit it by it, other than by such gratification as he may derive from the recorded acknowledgment that his judgment was the true one, and that it would have been well to have profited by it.

In 1872, the Water Board having had full charge of the water supply of the city since 1858, ordered surveys to be made by Robert K. Martin, Civil Engineer, looking to the introduction of the waters of the Gunpowder Falls as an additional supply.

These surveys were made and reported to the Water Board, then consisting of

JOSHUA VANSANT, *Mayor, Ex-officio President.*
JAMES L. MCLANE, *Secretary.*
JOHN A. GRIFFITH,
JOHN F. HUNTER,
GEORGE P. THOMAS,
JOHN R. SEEMULLER,
FIELDER C. SLINGLUFF,
Commissioners.

The plan proposed by these surveys, which was endorsed and approved by Charles P. Manning, the consulting engineer of the Water Board, was substantially the one suggested by T. E. Sickles in 1854, and was approved by the Water Board.

The severe drought of 1872 caused the City Council to order the Water Board to construct a temporary supply from the Gunpowder Falls to the head waters of Lake Roland, as already mentioned.

After obtainining the proper authority in 1874, the Water Board proceeded in 1875 to condemn the right of way for the introduction of the supply, by general flow, from the Gunpowder Falls, under the direction of James L. McLane, Wm. A. Fisher and R. R. Boarman, counsel for the Water Board.

In November, 1875, contracts were let for the construction of the entire line, the Water Board then consisting of

FERDINAND C. LATROBE, *Mayor, and*
Ex-officio President.
JOHN R. SEEMULLER, *Secretary.*
JOHN F. HUNTER,
GEORGE P. THOMAS,
THOMAS BOND,
GEORGE U. PORTER,
THOMAS W. HALL, JR.,
Commissioners.

The first work was commenced at Lake Montebello on Friday, December the 3d, 1875, by Robert K. Martin, Chief Engineer, turning the first shovel full of earth.

The several pieces of work are, Loch Raven, the storage lake in the bed of the Gunpowder Falls; the dam across the Gunpowder Falls; the tunnel or conduit line from the dam to the receiving reservoir; Lake Montebello, the receiving reservoir; Lake Clifton, a storage reservoir, and the forty-inch pipe mains from Lake Clifton to the city limits.

LOCH RAVEN,

A storage lake in the bed of the Gunpowder Falls is formed by the erection of a stone dam of heavy rubble and cut masonry across the Falls.

The surface of the water of the Loch is 170 feet above tide water. The water area is 252 acres. Its capacity is 510 millions of gallons, and its depth varies from 4 to 20 feet. Its length is 4¾ miles, and its width varies from 100 to 800 feet.

A carriage drive has been constructed on each side of the Loch. On the line of this drive, nine white marble bridges span the streams that flow into the Loch.

THE DAM

That holds back the waters of the Gunpowder Falls, is built of rubble and white marble. All foundations are laid upon solid rock. The thickness of masonry at the foundation, is 62 feet. The depth of the foundation, below the original surface, is 13 feet. The width of the overflow is 300 feet. The wings extend into the hill, on each side, 256 feet. The height from the extreme foundation to the overflow is 29 feet. The wings on either side extend ten feet higher. The filling of

clay and earth on the inside is 45 feet at the base. The flow of water at the Dam is controlled by a gate-house, the chambers of which are built of white marble, smooth-cut masonry; and the superstructure is also built of white marble. Within this gate-house are located seventeen iron gates, with openings 3 feet by 4 feet.

THE CONDUIT

Is a continuous tunnel, seven miles long, running from the dam to the receiving reservoir, Lake Montebello. In its construction no open cuts were made; all work was done by drifting. The time occupied in the construction of this tunnel has been five years. Its depth below the surface of the ground varies from 65 to 360 feet. The internal diameter is 12 feet; the fall is one foot per mile.

The tunnel will be always full of water; at the dam the water line will be at the intrados of the arch, and at Lake Montebello it will be seven feet above the tunnel; the capacity of discharge of the tunnel in twenty-four hours will be 170 millions of gallons. The number of shafts sunk for the construction of the tunnel were fifteen, which are all now securely arched over and filled to the sarface. Two miles of the tunnel were through material that required to be arched with brick; the remaining distance of five miles was through very hard rock that did not require arching. The tunnel is unbroken in its alignment and grade from the dam to Lake Montebello. A large body of water enters it from Springs along its line, which is an additional source of supply to the city.

LAKE MONTEBELLO

Is the receiving reservoir of the Gunpowder water supply. It is located at the southern end of the seven mile tunnel; it is irregular in shape and covers an area of sixty acres. Its depth is 30 feet, and its capacity is 500 million gallons. The surface of water in the lake, when full, is 163 feet above tide. It is formed by building an embankment at each end of a ravine. The sides are in excavation; the material taken from the sides and bottom form the embankments. Irregularities in the bottom of the ravine were filled to a uniform grade. The width of the embankments on top is eighty feet; the exterior slopes are two to one, and the interior four to one.

There is a roadway one and one-half miles long around the lake. The surface drainage that formerly flowed through the ravine, as also the drainage of the hill sides and roadway, are carried off around the outside of the lake in a nine-foot tunnel, and by sewer pipes. A large hexagonal gate-house, situated at the entrance of the seven mile tunnel, receives and distributes the flow of water. This gate-house, which is built of white marble, is a compound one, and contains twenty-nine 3x4 feet iron gates..

LAKE CLIFTON

Is a storage reservoir for the Gunpowder water supply, and is located one mile south of Lake Montebello, from which it will receive its water through a twelve-feet brick conduit. It is elliptical in shape, the short axis being 1,200 feet, and the long axis 1,700 feet. Its water area will be thirty acres, its depth thirty feet,

and its capacity 265 millions of gallons. The height of water in the lake, when full, will be 163 feet above tide. The width of the embankment on top will be eighty feet, the exterior slopes two to one, and interior, four to one. The length of roadway around the Lake will be three-quarters of a mile.

Lake Clifton is unfinished, but the gate-chambers, located at the end of the conduit from Lake Montebello, are completed. These chambers are built of rubble stone, brick and iron. Here, forty-six iron gates, of different sizes, control the flow of water, and by means of the combination of chambers, flumes and gates, the water is received and passed into the mains, and thence to the city, without the aid of Lake Clifton.

PIPE MAINS.

The gate-chambers at Lake Clifton are pierced for six 40-inch cast-iron mains to supply the city with water. Two 40-inch mains have been laid from the gate-chambers under the bed of Washington street extended, and along Washington street into the city. One will supply the eastern and the other the western portions of the city. Of the remaining four, one has been laid to the city limits, and the other three have been laid beyond the gate-chambers, there ready for the future wants of the city.

The engineer corps under whose supervision the Gunpowder Water Supply was constructed were:

Robert K. Martin, Chief Engineer.
Chas. P. Manning, Consulting Engineer.
Wm. L. Kenly, Principal Assistant Engineer.

R. Bruce Hook, Resident Engineer, 1st residency, (Loch Raven.)

H. B. McLane, Assistant Engineer, 1st residency, (Loch Raven.)

Wm. R. Warfield, Resident Engineer, 2d residency, (Dam.)

Wm. W. Kenly, Assistant Engineer, 2d residency, (Dam.)

Geo. L. Cummins, Assistant Engineer, 2d residency, (Dam.)

C. O. Swann, Resident Engineer, 3d residency, (1st and 2d tunnel section.)

John Ridgely, Assistant Engineer, 3d residency, (1st and 2d tunnel section.)

Chas. T. Manning, Resident Engineer, 4th residency, (3d and 4th tunnel section.)

Francis O. MacTavish, Assistant Engineer, 4th residency, (3d and 4th tunnel section.)

Wm. T. Manning, Resident Engineer, 5th residency, (5th and 6th tunnel section.)

John S. Patterson, Assistant Engineer, 5th residency, (5th and 6th tunnel section.)

Oliver H. Balderston, Resident Engineer, 6th residency, (7th tunnel section.)

Wm. Seemuller, Assistant Engineer, 6th residency, (7th tunnel section.)

Chas. A. Hook, Resident Engineer, 7th residency, (Lake Montebello and Clifton tunnel.)

Wm. A. Chapman, Assistant Engineer, 7th residency, and Resident Engineer from April 1st, 1880, (Lake Montebello and Clifton tunnel.)

A. H. Tinges, Resident Engineer, 8th residency, (Lake Clifton.)

Wm. Benthall, Assistant Engineer, 8th residency, (Lake Clifton.)

Matthew O'Brien, Draughtsman.

The contractors engaged upon the Gunpowder Water Supply were:

Condon & Co., Loch Raven.

Fenton & Allen, Dam.

Bruce & Patterson, 1st tunnel section.

L. B. McCabe & Bro., 2d, 3d, 4th and 5th tunnel sections.

John Donoghue & Bros., 6th and 7th tunnel sections.

John E. Eschbach, Lake Montebello and Clifton tunnel. Contract finished by Haugh & Lyons.

John Donoghue and Chas. Donoghue, Lake Clifton conduit and gate-chamber excavations.

The Inspectors in the employ of the Water Board in the building of the Gunpowder Water Supply were:

John G. Holland, General Superintendent of brick masonry on line of work.

Wm. Bowen, Inspector of bridge masonry, Loch Raven.

John Moore, Inspector stone masonry, Dam.

Peter Snyder, Inspector stone masonry, Lakes Montebello and Clifton.

Geo. R. Callis, Superintendent of brick work in tunnels, Lakes Montebello and Clifton.

Robert Benthall, Inspector of embankments, Lakes Montebello and Clifton.

John T. Hall, Superintendent of brick work in tunnels.

Geo. P. Holland, Foreman of brick work in tunnels.

Wm. Holland, Foreman of brick work in tunnels.

Robert H. Shederick, Foreman of brick work in tunnels.

Henry Fox, Foreman of carpenters.

Robert Foley, Foreman city laborers, Lakes Montebello and Clifton.

Gustavus Warfield, Inspector of bricks and packing over arches in tunnel.

James K. P. Wilkinson, Inspector of bricks and packing over arches in tunnel.

L. T. Passano, Clerk and telegraph operator.

There has been placed in the several gate-houses on the line of the Gunpowder Water Supply ninety-two iron gates. These gates, with their connections, were constructed in the mechanical department of the city water works, under the direction of James Curran, Water Engineer.

The amount of the appropriation for the introduction of the Gunpowder Water Supply was four millions of dollars. Out of this sum the work has been built and paid for; land and water rights have been purchased, condemned and paid for.

Water will be introduced from the Gunpowder into the city within the appropriation, and there will then be a balance to the credit of the Water Board.

The Water Board, under whose administration the Gunpowder Water Supply was completed, consists of—

FERDINAND C. LATROBE, *Mayor, and ex-officio President.*
GEORGE U. PORTER, *Secretary.*
JOHN F. HUNTER,
GEORGE P. THOMAS,
THOMAS BOND,
WM. A. FISHER,
N. RUFUS GILL.

Amount expended on the Permanent Water Supply from January 1st, 1875, (beginning,) to August 31st, 1881.

1875	$ 168,419 09
1876	399,956 68
1877	1,094,932 67
1878	1,081,090 50
1879	838,387 26
1880	426,241 12
From January 1, 1881 to August 31, 1881	82,348 28
Total	$4,091,375 60
Proceeds of sales of stock	$4,122,003 79

Before completing this account of the water supply of Baltimore, and especially that which has just been perfected from the Gunpowder, it is only just to refer to the character of this latter work. It is the misfortune, in some respects, of engineers of works like this present, that they are remote during their progress, and even afterwards, from the public gaze, and beyond the daily observation of the public, to whom the erection of a building in a city is a matter of daily interest, and which remains after it is completed, a monument, always in the public eye, of the talent, taste and skill of the architect. But few, comparatively, in Baltimore will ever see the works of Loch Raven—the magnificent dam of white marble, and the adjoining gate-house—or understand the difficulty of the construction, by which the latter was fitted to pass the rapid and at times turbulent stream during the erection of the western por-

tion of the dam. Still fewer will undertake even to understand the apparently complicated, yet, in fact, simple plan of the arrangements at Lake Montebello and Lake Clifton for the distribution of the water secured there; and none but those who watched the progress of the work can now appreciate the excellence, and often the originality, of every portion, or the faithful solidity of its construction.

ANNUAL REPORT

OF THE

INSPECTOR OF GAS & ILLUMINATING OILS

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1881

REPORT.

OFFICE OF INSPECTOR OF GAS AND ILLUMINATING OILS,

Baltimore, January 2, 1882,

To the Honorable the Mayor and
City Council of Baltimore:

GENTLEMEN:

The following report of the work of this office during the year ending December 31st, 1881, is respectfully submitted.

It is very satisfactory to be able to announce that accidents arising from the use of kerosene and gasoline during the year, have been less in number than during the year preceding, while no injury to person and very trifling damage to property have been caused by explosions of coal oil lamps. Accidents when occurring are very generally reported as lamp explosions, even when no coal oil or lamp is in use. Setting aside three accidents where the cause was doubtful, there have been only five unequivocal lamp explosions; and it is worthy of note that in all these cases the oil used was fully up

to or even above the standard fixed by the ordinance, as its language has been interpreted by the Judge of the Criminal Court. If further experience is found to indicate continued danger of the same kind, a remedy is within reach. The City Council have the power, and need only alter the wording of the ordinance to designate exactly how the flashing point shall be determined, naming not only the instrument to be used, but describing how it shall be used. At present, the Inspector, under instruction of the Court, is compelled to use the method adopted by the refineries and exporters of oil—a method better fitted for the purposes of trade than for security against accidents, as shown by all the lamp explosions during the last year. It has always been my opinion that the mode of testing prescribed by the Court, compels the Inspector to sanction the sale of oil really dangerous though legally safe. A classified list of the casualties occurring during the year, contrasted with the preceding year, is appended in the table markd A. The two deaths noted were caused by children in play upsetting and breaking a lighted lamp. Such unfortunate accidents are apparently unavoidable. An investigation of the five undoubted lamp explosions showed some interesting facts that seem to indicate one source of danger easily guarded against. In three of the five, the accident occurred very soon after the lamp was lighted. All three were only partly filled, and had been left standing in that condition all day, and all were so placed that they were exposed to a strong current of air. Had they been properly filled, it is probable the accidents would not have happened. The improvement in the character of the oil offered for sale

very manifest in the report for the last quarter of the last year, is still more marked in the record for 1881. In table B will be found the number of samples tested, and the number condemned quarterly during the years 1880 and 1881. To judge from the result of the second year's operation of the ordinance, we may reasonably hope that the time is not far distant when accidents from kerosene oil will be limited to such as result from gross carelessness. For these there would seem to be neither preventive or remedy. I regret to be compelled to report that the action of the last City Council in repealing and re-enacting the ordinance, to render it operative, was successful only in part. There are still two sections that require further action before they can be enforced. Early in the summer a dealer who refused to take out a license, the first case of the kind was reported to the grand jury, an indictment was found and a test case was made to determine the validity of the sections imposing a penalty for such refusal. With what success the effort to enforce the law, was rewarded, may be gathered from the following letter from Charles G. Kerr, Esq., State's Attorney.

[Copy.]

July 21st, 1881.

PROF. WM. E. A. AIKEN, *Inspector, &c.*

DEAR SIR:

Referring to the case of "State vs. King," presented by the Grand July for "selling coal oil in quantities less

than a barrel, without license," I beg to inform you that I have carefully examined the law and the facts. My conclusion is a very clear one, that the charge against King cannot be maintained, and I have ordered the case to be dismissed. The reasons for this opinion, and my action, are obvious, and as follows:

1st. King produces a State license as a trader, and he is consequently entitled to sell coal oil, subject only to such regulations concerning its character and quality as may have been prescribed by the Mayor and City Council of Baltimore, under the power conferred by the Legislature.

2d. The ordinance (No. 35, approved April 1st, 1881,) seems perfectly within the scope of the special corporate authority in so far as it provides a certain test for the illuminating power of gas, and the inflammable vapor of oil allowed to be sold at all. Sections six and seven of the ordinance are, however, in my opinion, absolutely void, as I can nowhere find power given to the city to exact a license for the privilege of selling oils or fluids of the kind referred to.

Very respectfully,

Your obedient servant,

CHARLES G. KERR,
State's Attorney.

As I understand the decision of the State's Attorney, the Mayor and City Council not only have no authority now to impose a license fee, but they never can have, as the Legislature has no power to create such authority.

The mere license fee is, however, a secondary consideration. It would be very desirable if the office could be made self-supporting—but it is more important that the sale of dangerous oils should be prevented. When all the retail dealers are known they can be regularly visited, and the oil on sale tested. Without some record to indicate where they are to be found, it would be very difficult, if not impossible, to find them all; and to overlook any number, might involve some risk to life and property. If the license is issued without any fee, it will be in the power of the Mayor and City Council to impose a penalty on all who refuse or neglect to procure one, and this would enable the Comptroller to furnish the Inspector with a correct list of all who retail illuminating oils. All that is needed can be accomplished by a slight alteration of sections six and eight of the ordinance, by merely striking out all reference to the license fee. The importance of speedy action in this matter need hardly be urged. Until obtained, the inspection cannot be made operative on all dealers, and the security the ordinance promises, when universally enforced, must be seriously impaired.

The character of the gas supply in regard to chemical purity during the year just closed, has been uniformly satisfactory to qualitative tests. Should it become necessary to institute a quantitative analysis, the required facilities would have to be provided, as this office has never been furnished with them. But until chemical impurities interfere with the illuminating power of the gas, or threaten to become obnoxious to health, such analysis is of less importance. The illuminating power

has been uniformly above the standard. Exactly how far above could not be determined by the use of the very imperfect photometer arrangements belonging to the city. These arrangements have been noted in the reports from this office for many years, part as worn out by long continuous use during some twenty years; and every year they are becoming less and less serviceable. Hence the observations reported weekly during the year, and embodied in the accompanying table, cannot claim to be more than approximate results, depending for accuracy on the judgment and experience of the observer. Should they be thought too high by the public or too low by the gas company, they are only offered as the result of an earnest effort, under difficulties, to do justice to the consumer and producer. The only possible remedy for this state of things will be to substitute new and efficient apparatus for that which has been worn out. The last report from this office assumed, on what was then thought sufficient evidence, that the gas tested represented the article supplied to all consumers. This proves to have been a mistake, with perhaps the exception of a brief period, when connections between the mains from different works permitted the gas from these to be mingled before reaching the consumer. This I have learned is no longer the case, and this office is now, and has been for a long time, supplied with gas exclusively from the works at the foot of Howard street. As the gas made there has somewhat less illuminating power than that made at the Canton works, this report gives an unfavorable view of the illuminating power of the gas supply as a whole. There is reason to believe this will soon be changed, as service pipes from the mains of the

Canton works, and also from the mains of the Equitable Gas Light Co., have recently been brought into the City Hall—and eventually the gas from both will be delivered in this office, and thenceforward can be tested.

The accompanying table C, shows the average illuminating power of the gas supplied to the City of Baltimore, from the works of the Consolidated company, at the foot of Howard street, during the year 1881.

Respectfully, &c.

WILLIAM E. A. AIKEN,
Inspector of Gas and Illuminating Oils

TABLES.

TABLE A.

Showing the number of accidents from Coal Oil and Gasoline, with the number of persons burned, and of those who died during the years 1880 and 1881.

	1880.	1881.
Total accidents	28	19
Lamp explosions	18	5
Lamps broken or upset	2	3
Filling lighted lamp	1	...
Ignited oil can	3	1
Oil in lamp ignited	...	1
Gasoline lamps	4	6
Doubtful as to cause	...	3
Number of persons burned	6	3
Number who died	2	2

TABLE B.

Showing the number of samples of coal oil tested, and the number of samples reported as dangerous, during each quarter of the years 1880 and 1881.

	1880.		1881.	
	Samples Tested.	Samples Condemned.	Samples Tested.	Samples Condemned.
January, February, March.	1590	179	1248	.....
April, May, June,	1364	52	1482	.....
July, August, September.	1257	6	1484	.....
October, November, December.	1165	1	1514	.....
Totals.....	5376	238	5728	.....

TABLE C.

Showing the estimated average illuminating power of the gas supplied to the city of Baltimore from the works of the Consolidated Gas Company, at the foot of Howard street, during the year 1881.

January	17.60	candle power.
February	17	"
March	17.75	"
April	17	"
May	17	"
June	17	"
July	17	"
August	17	"
September	17	"
October	17	"
November	17.25	"
December	18	"
Average for the year	17.22	candles.

The photometer used is an 100-inch scale, with Bunsen disc and Sugg London Argand burner, letter F—the gas burning at the rate of 5 cubic feet per hour, with standard sperm candles calculated to the rate of 120 grains of sperm per hour.

DO NOT CIRCULATE

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